

I SEE PROBLEM-SOLVING - KS1

TASK BUILD-UP

Spot the Mistakes:

●		●		2
	●	●		2
		●	●	2
●		●	●	2
2	1	4	2	

$$\square + \square = \square \square$$

Answer using four of the digits:



$$\bigcirc + \nabla = 6$$

$$\bigcirc =$$

$$\bigcirc + \nabla + \nabla = 7$$

$$\nabla =$$

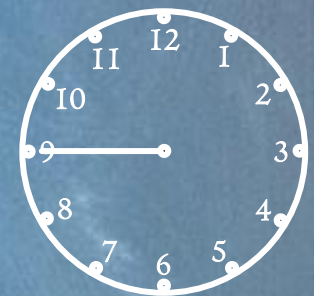
Odd one out:



Find 9 squares:



5:45



GARETH METCALFE

Available as PowerPoint and PDF from www.iseemaths.com

I SEE PROBLEM-SOLVING – Y2

WORKED EXAMPLES

Building 2-Digit Numbers

10 and 1 Counters

Number Line Intervals

Reading Number Lines

Patterns in Counting

Dots in a Grid

Digits in a Grid

Addition Bordering Tens

Subtraction Bordering Tens

Three Numbers

Shapes for Numbers

Dice Patterns

Different Arrays

Camping Trip

Combinations

Estimating Fractions

I SEE PROBLEM-SOLVING – Y2

WORKED EXAMPLES

Fractions of a Set

Fraction Pictures

Choosing Measures

Groups of Coins

Adding Coins

Change

Reading Clocks

Shape Properties

Combining Shapes

Shape Patterns

Asking Questions

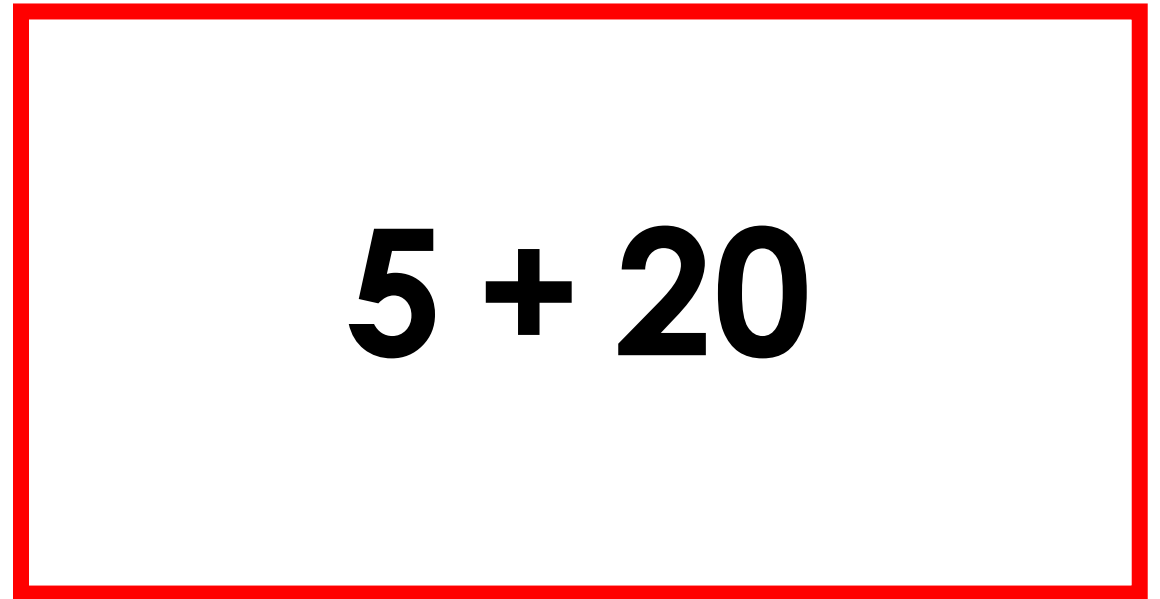
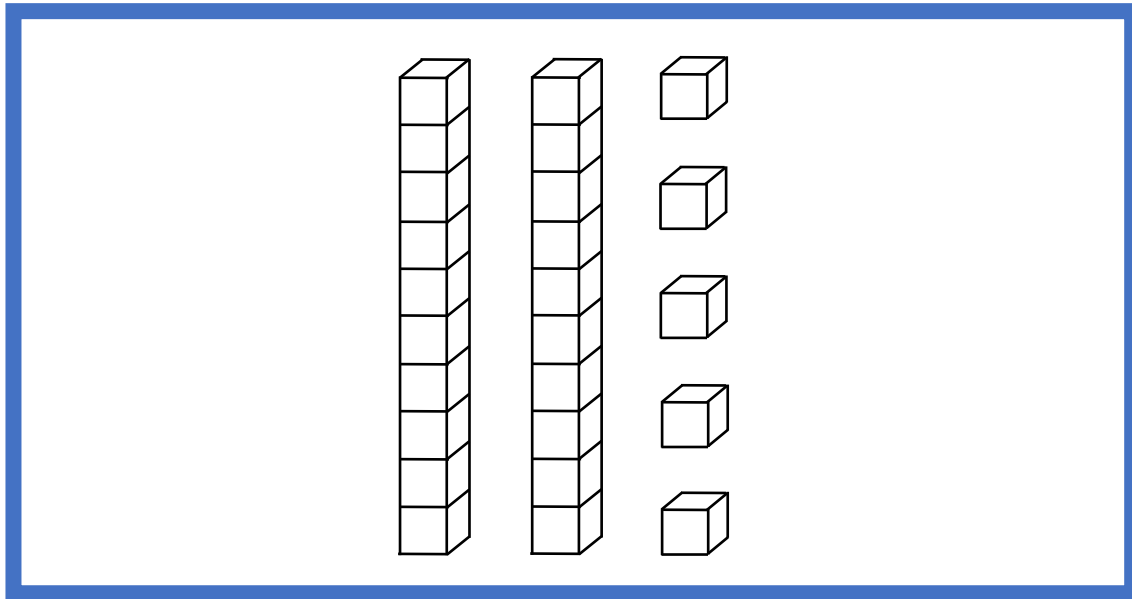
The Morning Routine

Building 2-Digit Numbers

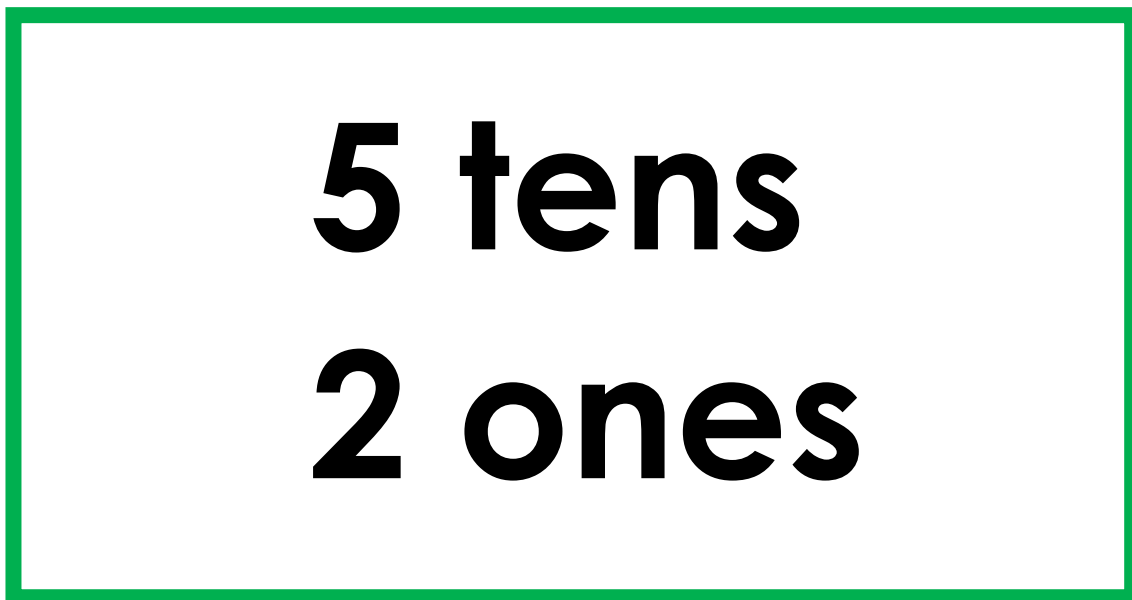
Part 1

Is it 25?

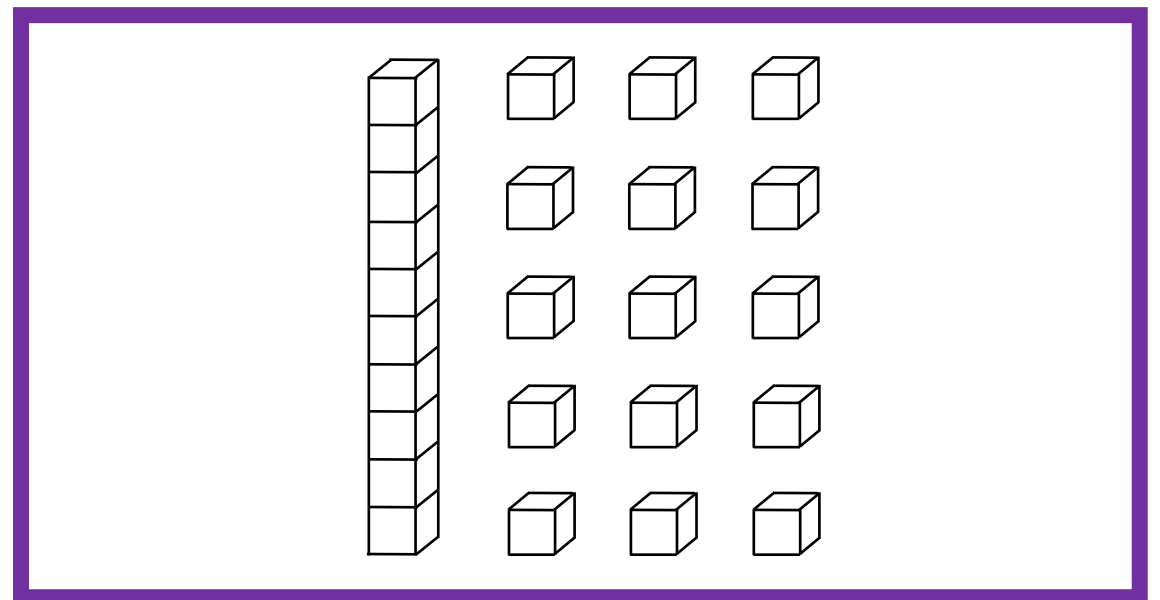
✓ or ✗



$$5 + 20$$



5 tens
2 ones



Building 2-Digit Numbers

Part 1

Is it 25?

✓ or ✗

✓

5 + 20

✓

5 tens ✗
2 ones

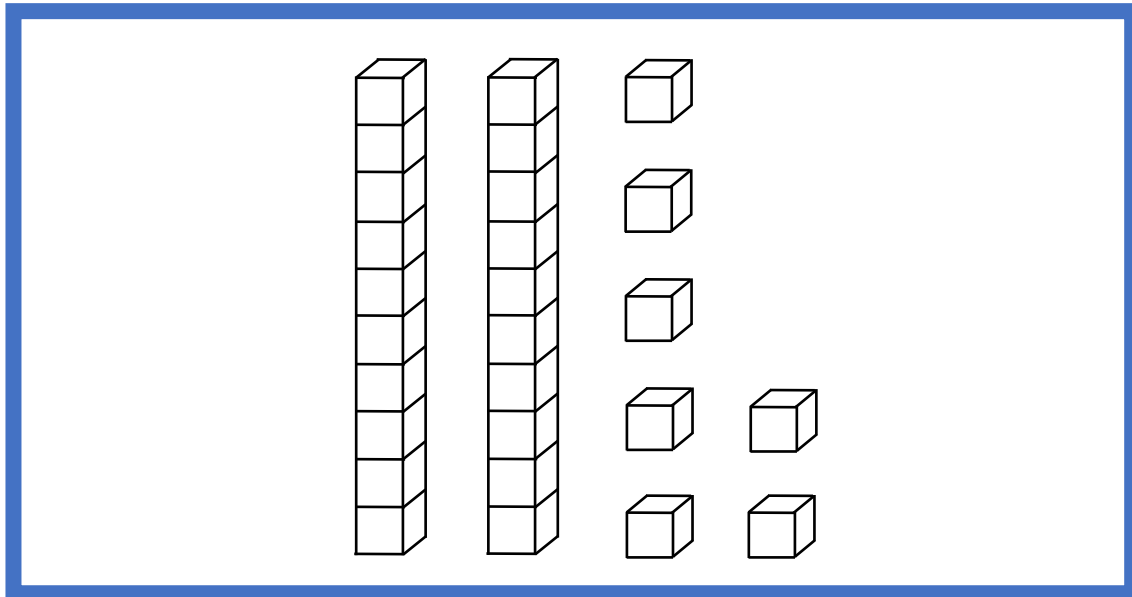
✓

Building 2-Digit Numbers

Part 1

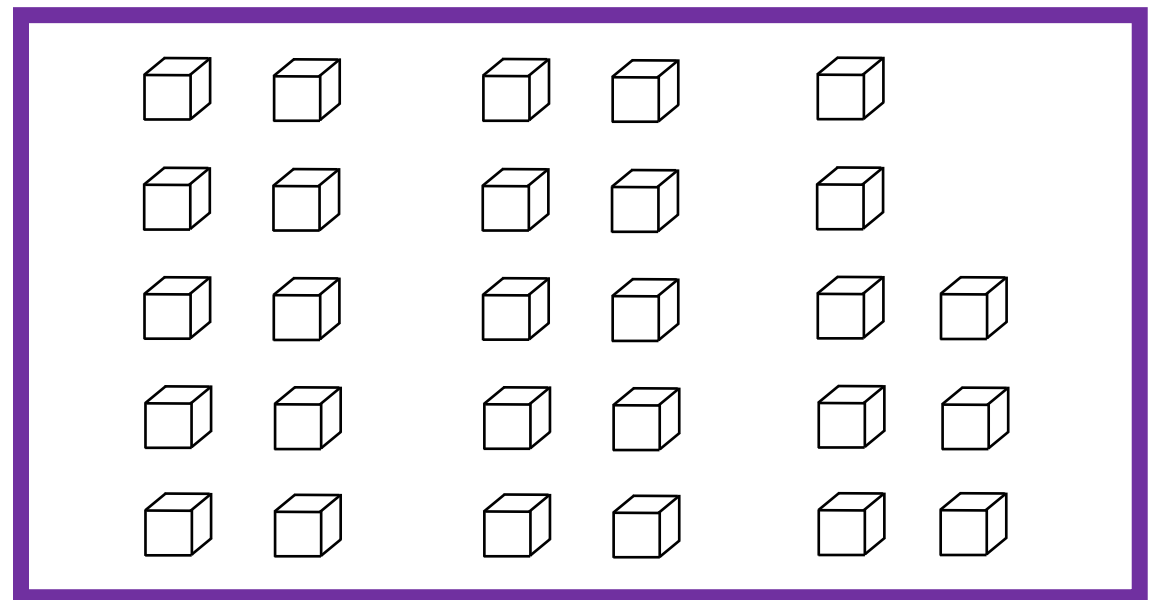
Is it 28?

✓ or ✗



$$20 + 8$$

20 tens
8 ones



Building 2-Digit Numbers

Part 1

Is it 28?

✓ or ✗

✗

20 + 8 ✓

20 tens ✗
8 ones

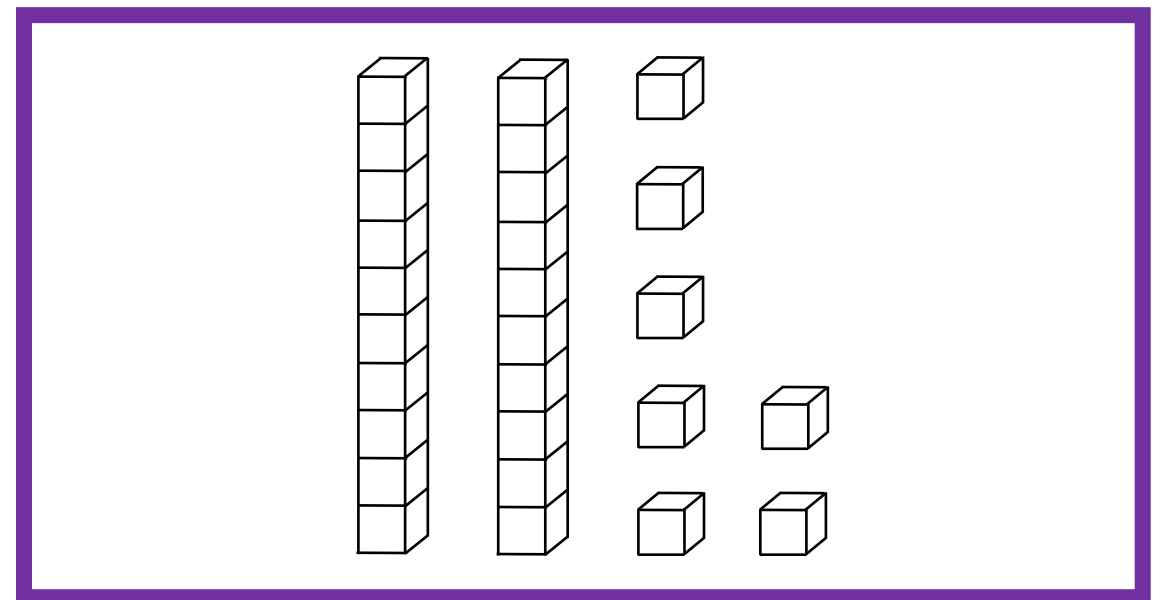
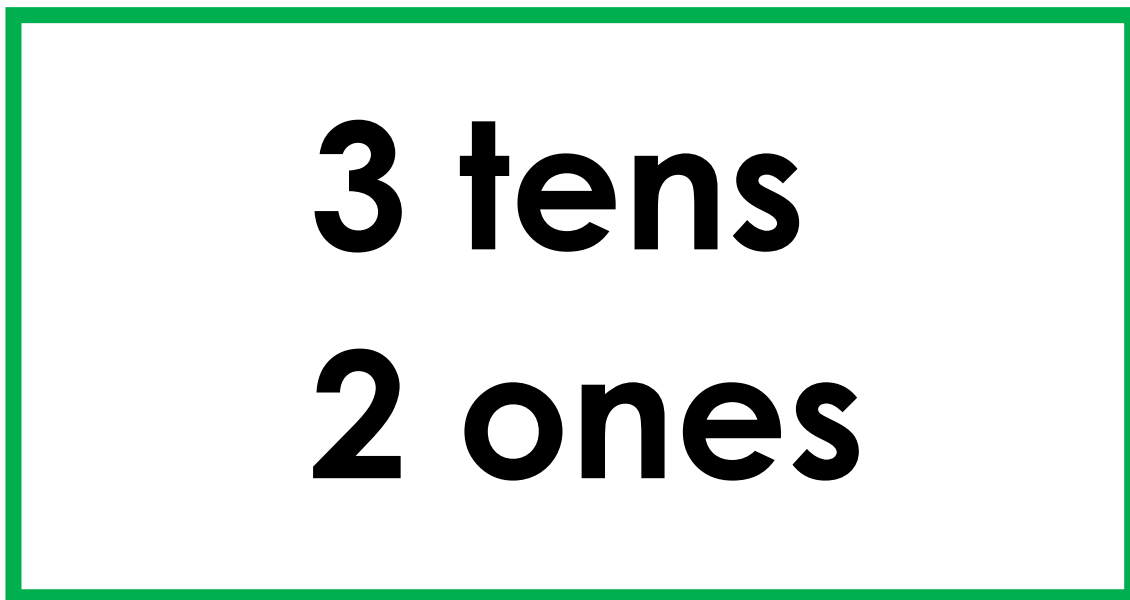
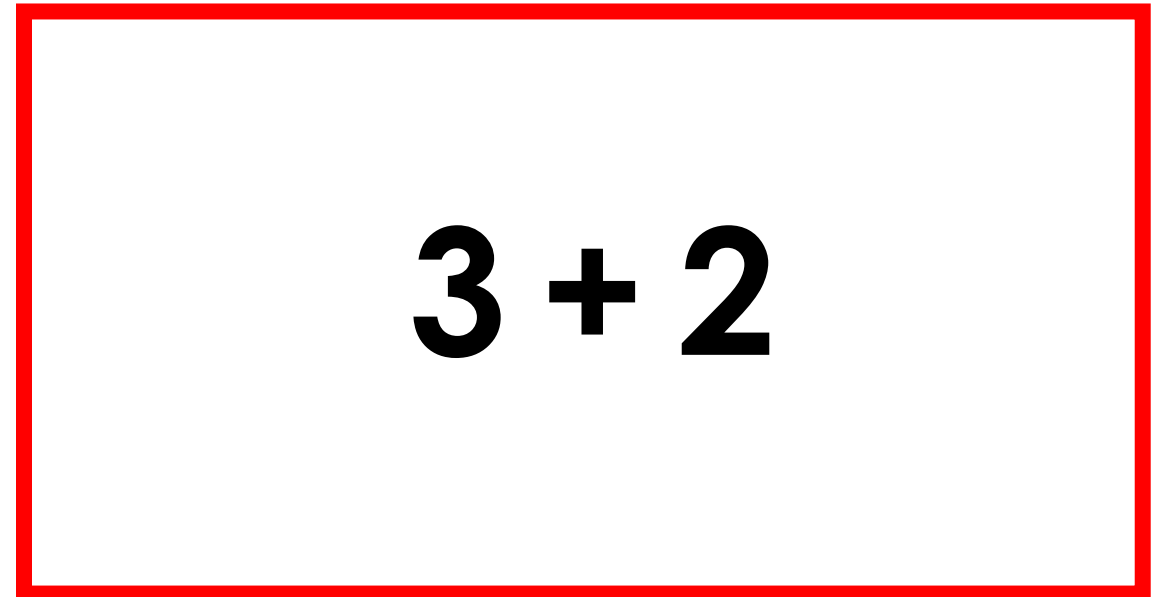
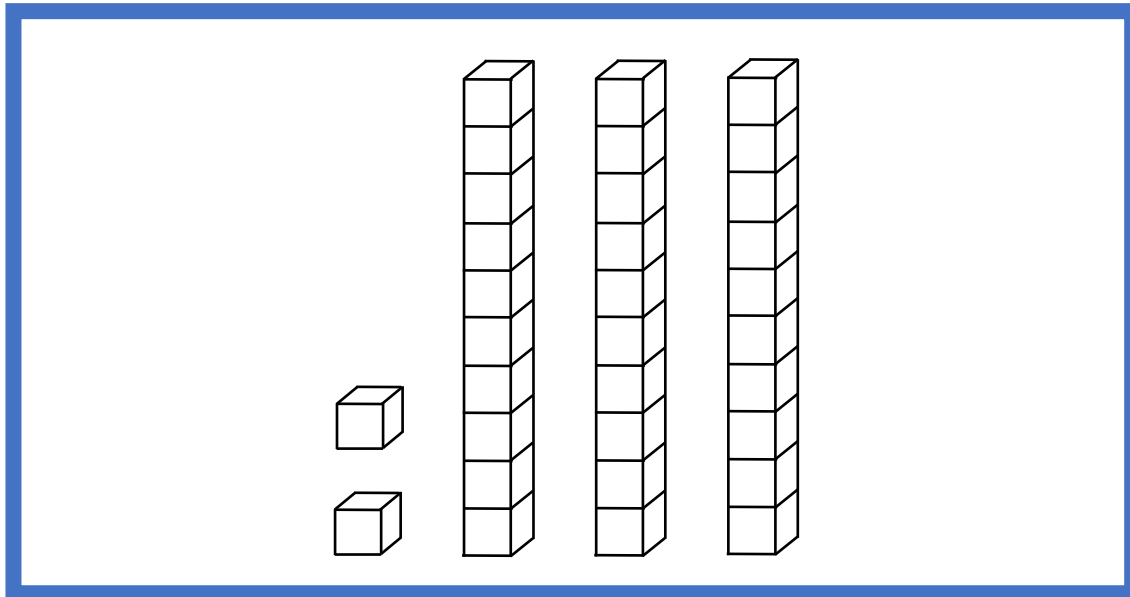
✓

Building 2-Digit Numbers

Part 1

Is it 32?

✓ or ✗



Building 2-Digit Numbers

Part 1

Is it 32?

✓ or ✗

A blue-bordered box containing 2 small cubes (ones) on the left and 3 vertical rods of 10 cubes each (tens) on the right. A checkmark is in the top right corner.

A red-bordered box containing the equation $3 + 2$ in the center and a large ✗ in the top right corner.

A green-bordered box containing the text "3 tens" and "2 ones" stacked vertically, with a checkmark in the top right corner.

A purple-bordered box containing 2 vertical rods of 10 cubes each (tens) and 12 small cubes (ones) arranged in two columns of 6. A large ✗ is in the top right corner.

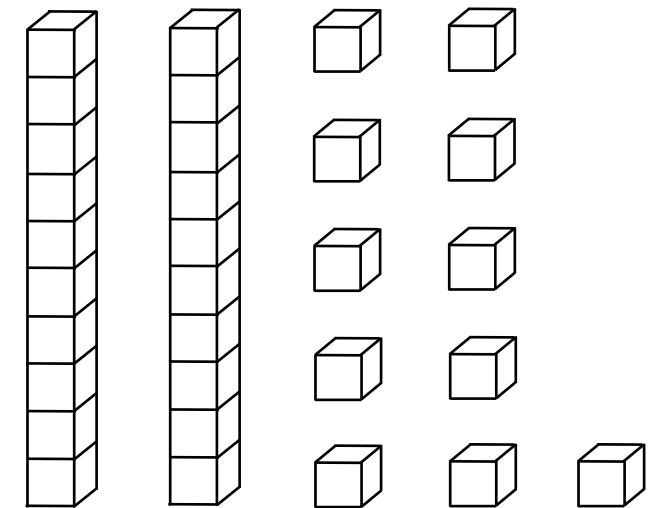
Building 2-Digit Numbers

Part 2

Explain the Mistakes

$$3 + 6 = 36$$

This is 41

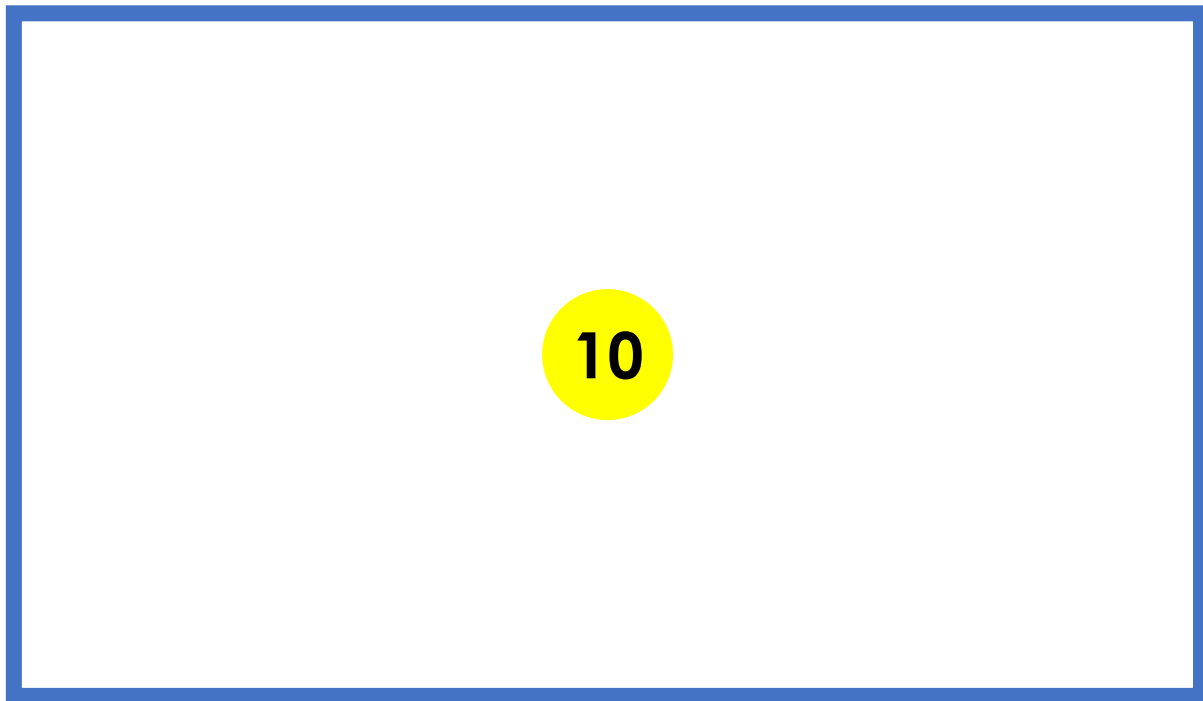
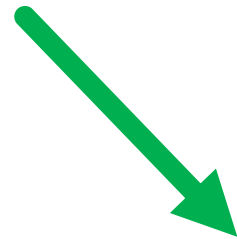
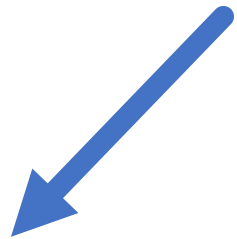


29 is made with
20 tens and 9 ones

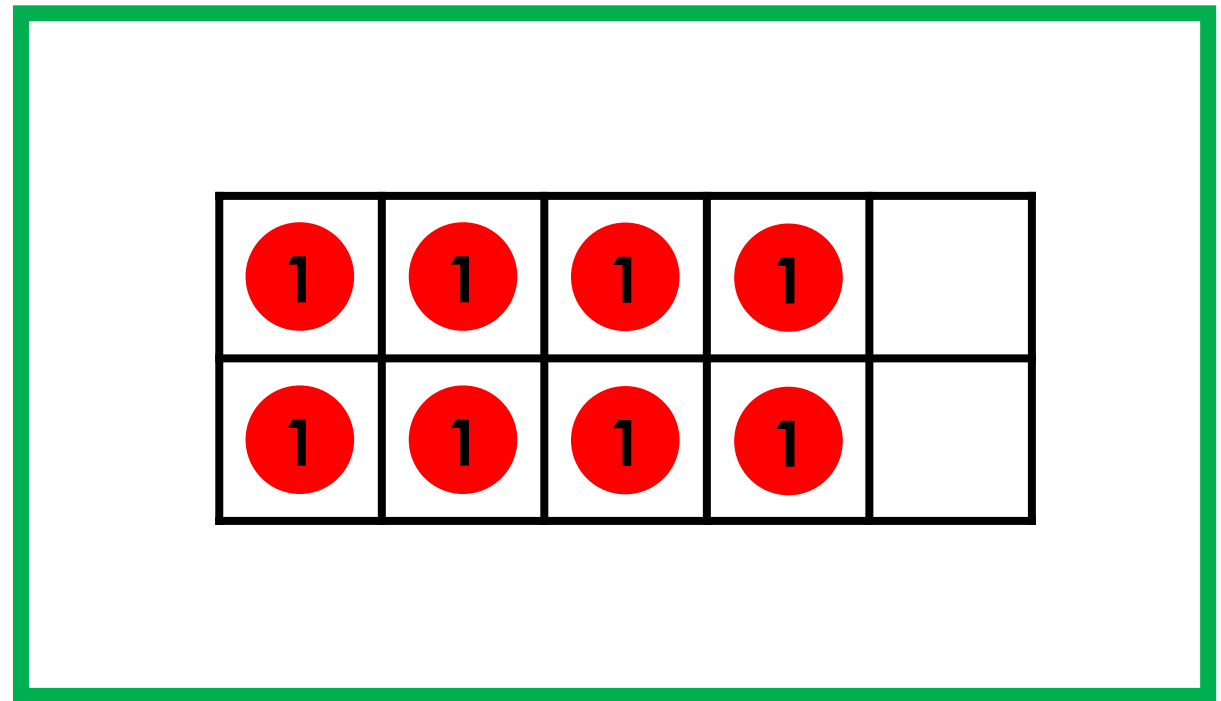
10 and 1 Counters

Part 1

Which is
more?



10

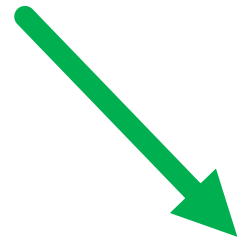


1	1	1	1	
1	1	1	1	

10 and 1 Counters

Part 1

Which is
more?

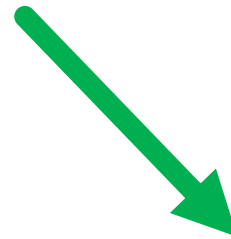
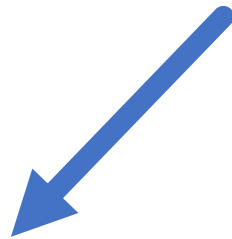


1	1	1	1	1
1	1	1	1	1

1

10

Which is
more?



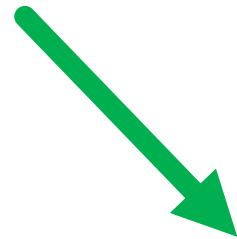
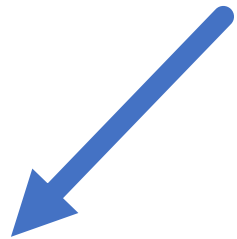
10	10
10	1

1	10
10	1

10 and 1 Counters

Part 1

Which is
more?



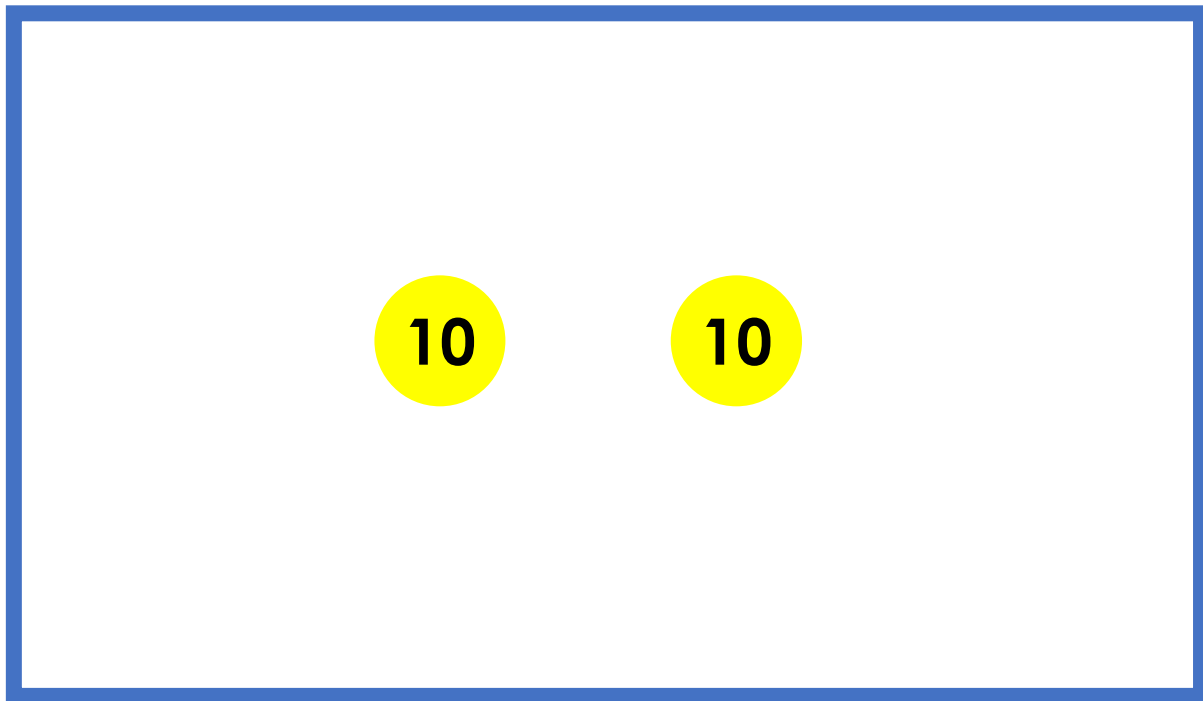
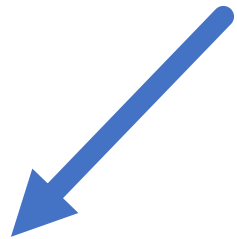
1	1	1	1	1	1	
1	1	1	1	1	1	1

10	10
----	----

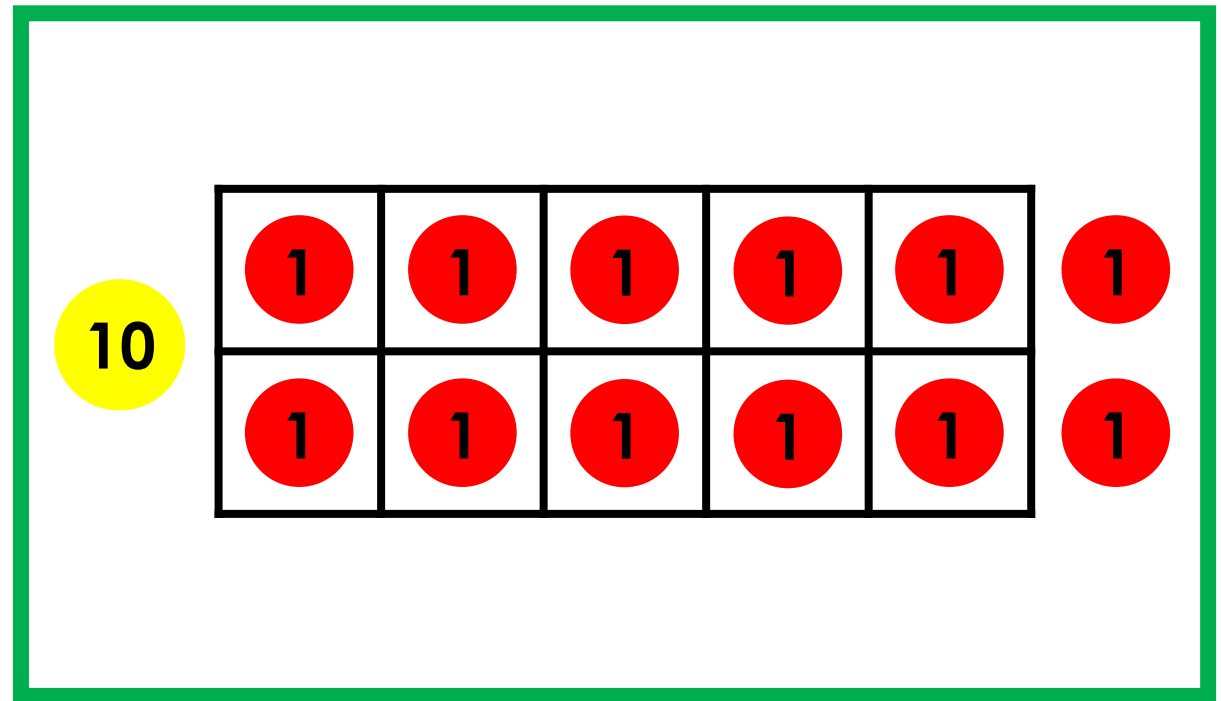
10 and 1 Counters

Part 1

Which is
more?



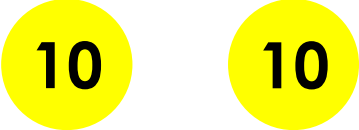
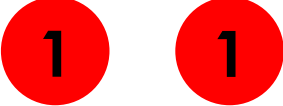
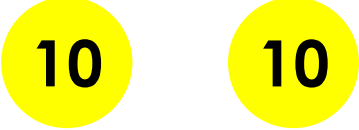

10 10



1	1	1	1	1
1	1	1	1	1

10 1 1 1 1 1 1 1

This is

tens	ones
	
	


Made with counters

This is 45

tens	ones

Made with 9 counters

This is

tens	ones												
	<table border="1"> <tr> <td style="text-align: center;">1</td> <td style="text-align: center;">1</td> <td style="text-align: center;">1</td> <td style="text-align: center;">1</td> <td style="text-align: center;">1</td> <td style="text-align: center;">1</td> </tr> <tr> <td style="text-align: center;">1</td> <td style="text-align: center;">1</td> <td style="text-align: center;">1</td> <td style="text-align: center;">1</td> <td style="text-align: center;">1</td> <td></td> </tr> </table>	1	1	1	1	1	1	1	1	1	1	1	
1	1	1	1	1	1								
1	1	1	1	1									

Made with counters

This is 21

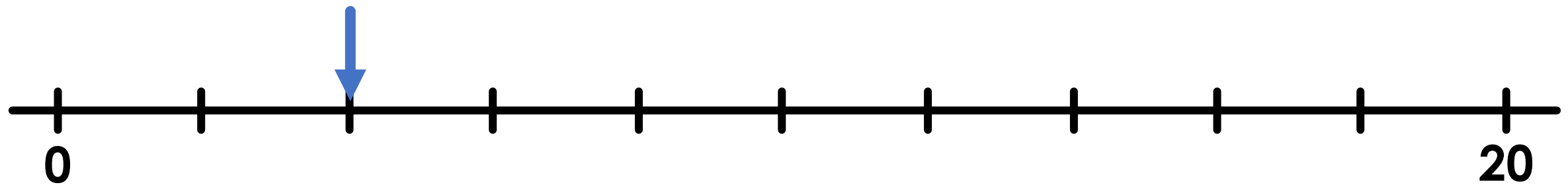
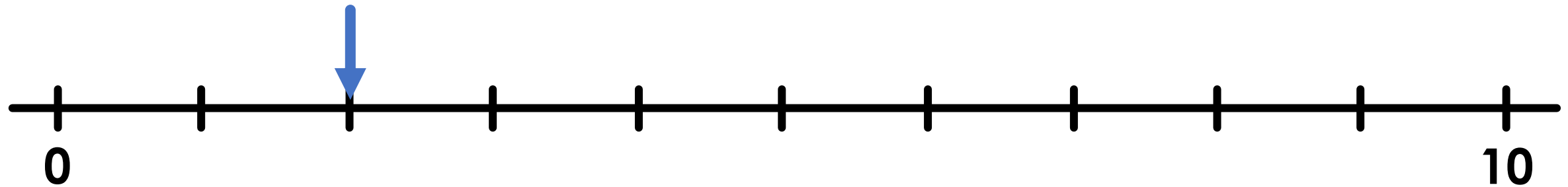
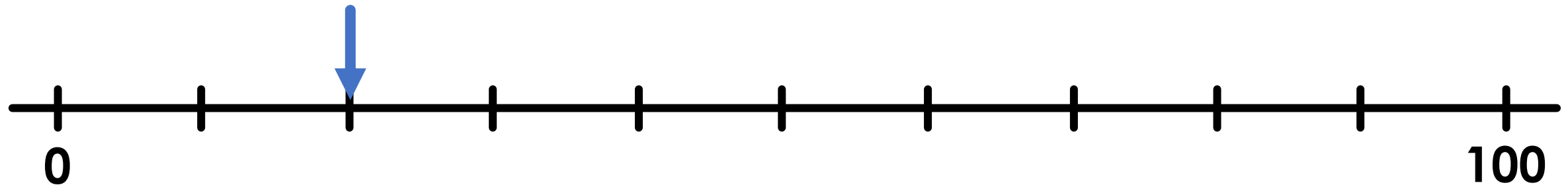
tens	ones												
<div style="display: flex; justify-content: center; align-items: center; height: 100px;"> <div style="background-color: yellow; border-radius: 50%; width: 40px; height: 40px; display: flex; align-items: center; justify-content: center; margin: 0 auto;">10</div> </div>	<div style="display: flex; align-items: center; justify-content: center; height: 100px;"> <table border="1" style="border-collapse: collapse; text-align: center;"> <tr> <td style="width: 20px; height: 20px;">1</td> <td style="width: 20px; height: 20px;">1</td> <td style="width: 20px; height: 20px;">1</td> <td style="width: 20px; height: 20px;">1</td> <td style="width: 20px; height: 20px;">1</td> <td style="width: 20px; height: 20px;">1</td> </tr> <tr> <td style="width: 20px; height: 20px;">1</td> <td style="width: 20px; height: 20px;">1</td> <td style="width: 20px; height: 20px;">1</td> <td style="width: 20px; height: 20px;">1</td> <td style="width: 20px; height: 20px;">1</td> <td style="width: 20px; height: 20px;">1</td> </tr> </table> <div style="margin-left: 10px;">1</div> </div>	1	1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1								
1	1	1	1	1	1								

Made with 12 counters

Number Line Intervals

Part 1

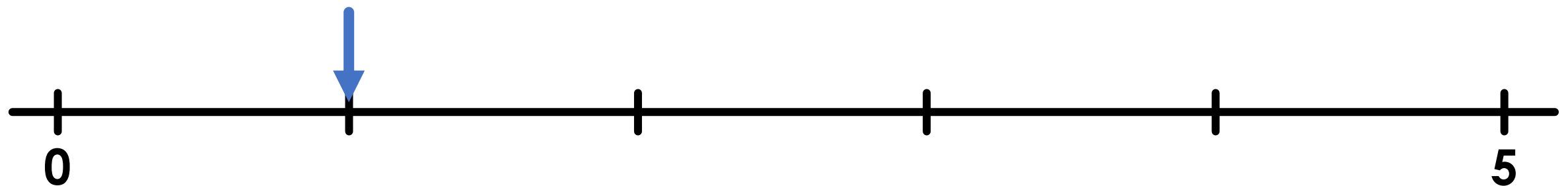
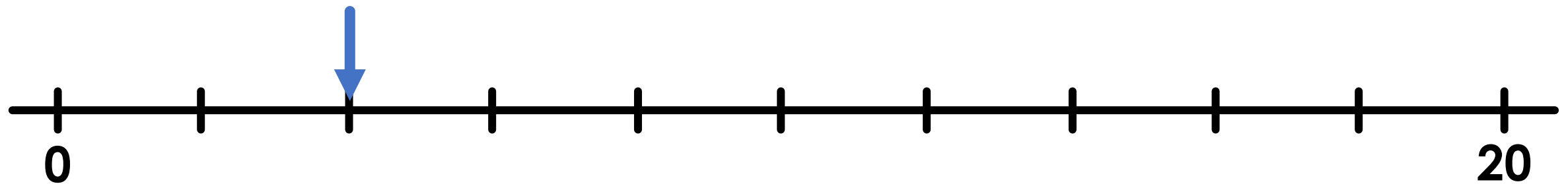
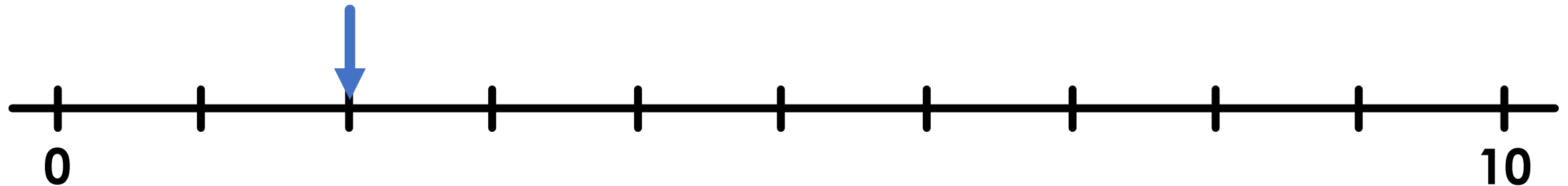
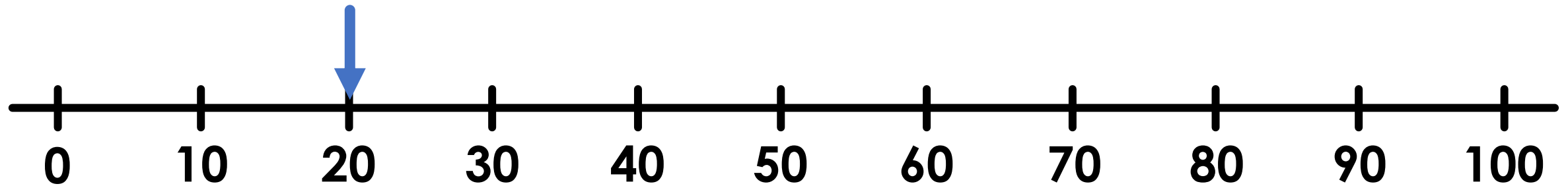
Which numbers are at the arrows?



Number Line Intervals

Part 1

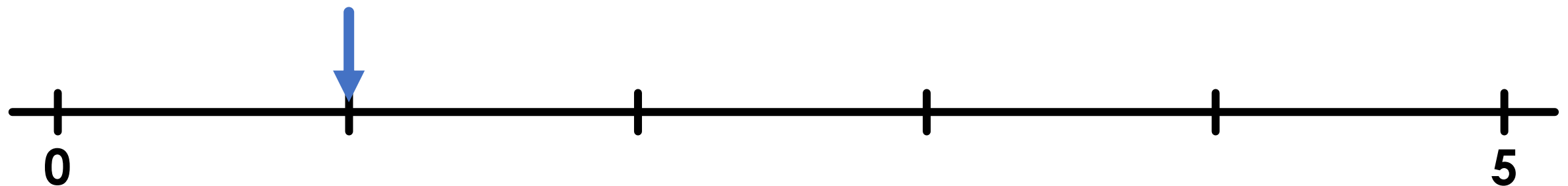
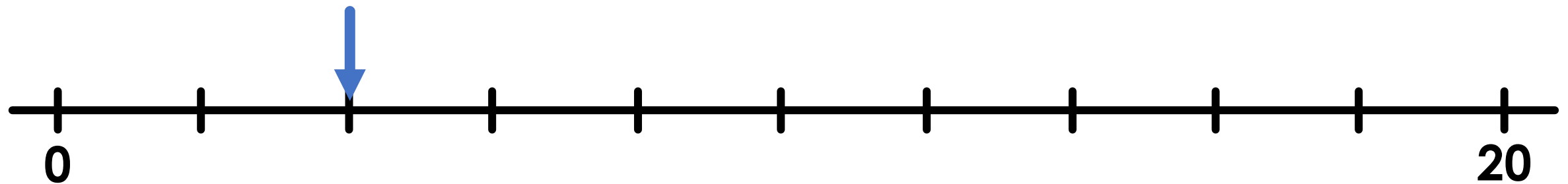
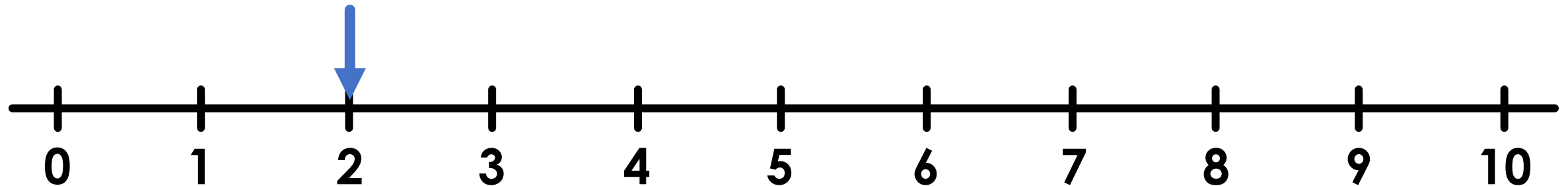
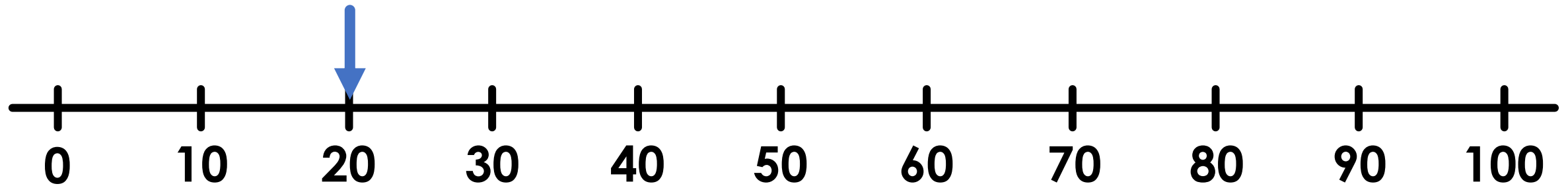
Which numbers are at the arrows?



Number Line Intervals

Part 1

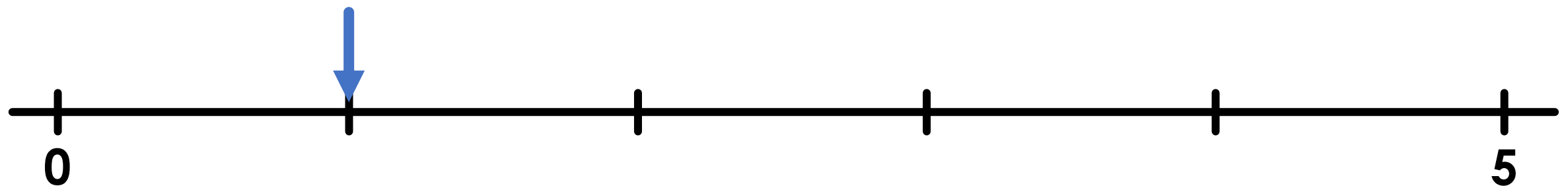
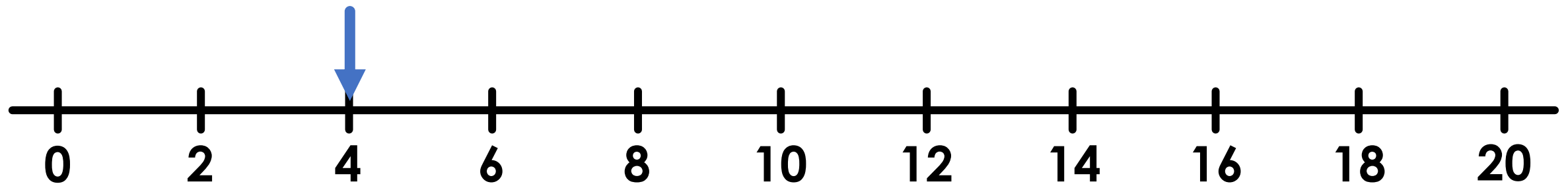
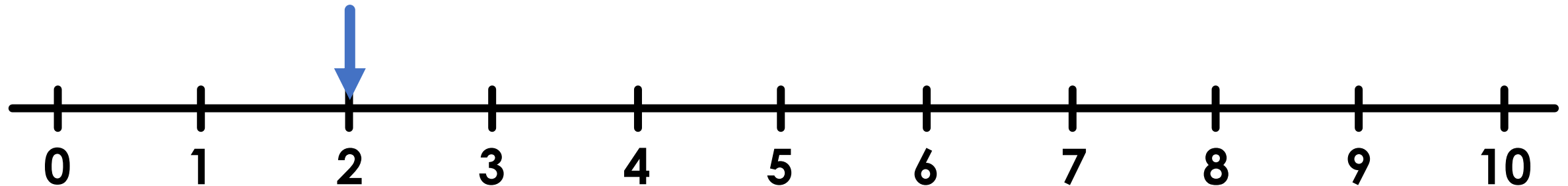
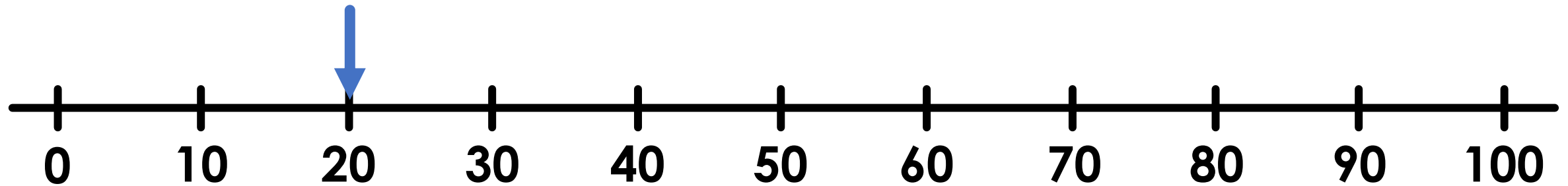
Which numbers are at the arrows?



Number Line Intervals

Part 1

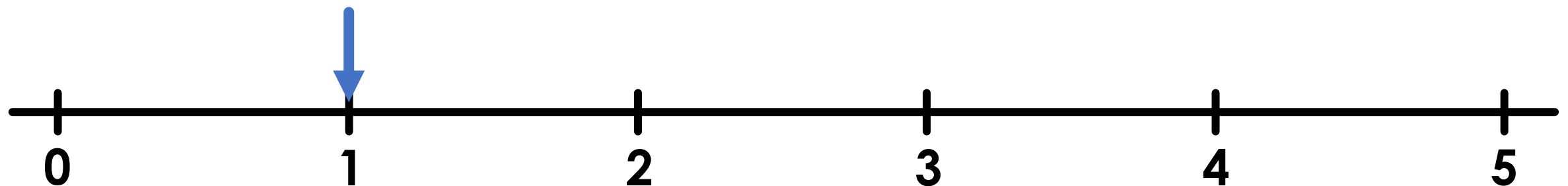
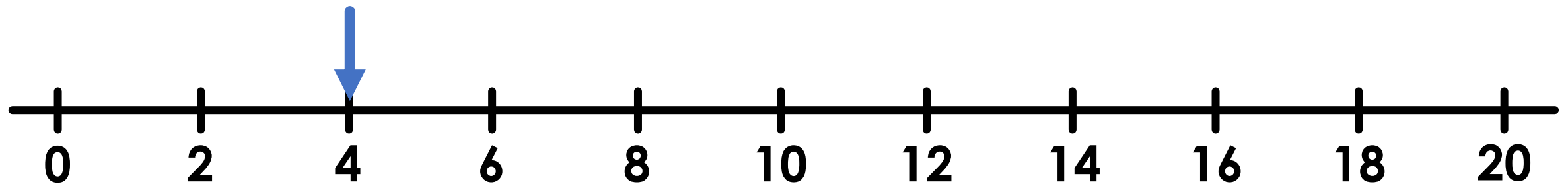
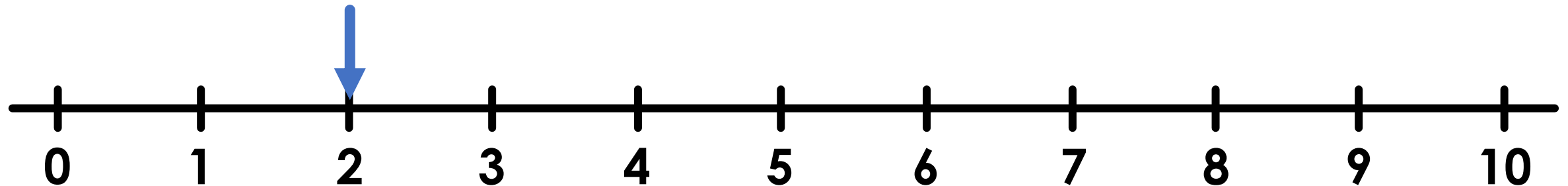
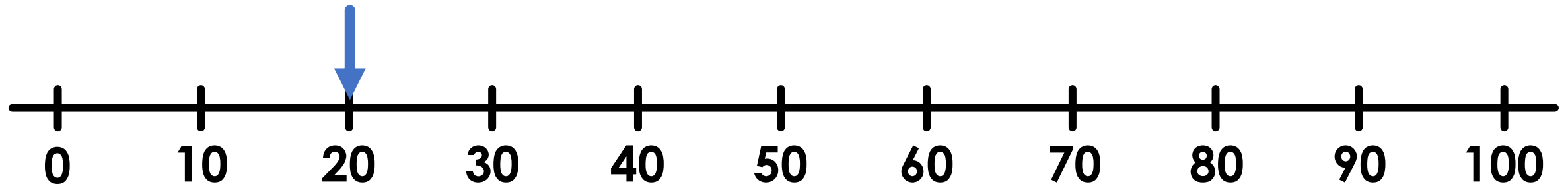
Which numbers are at the arrows?



Number Line Intervals

Part 1

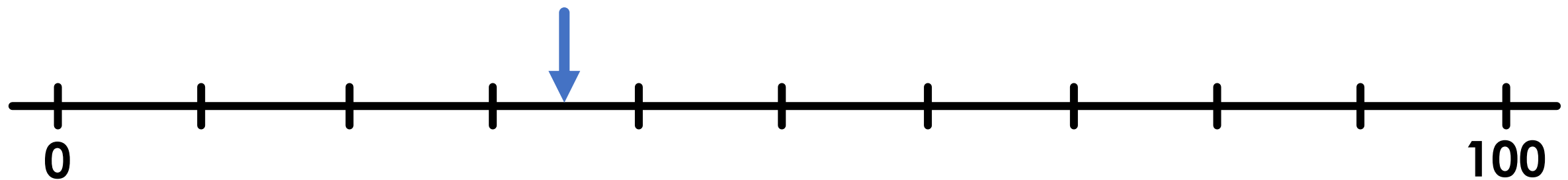
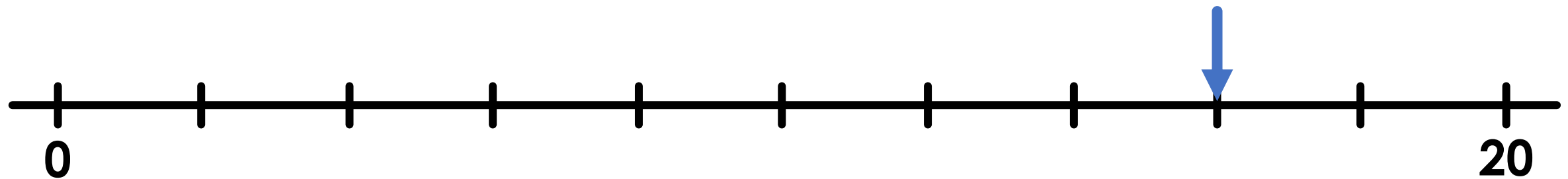
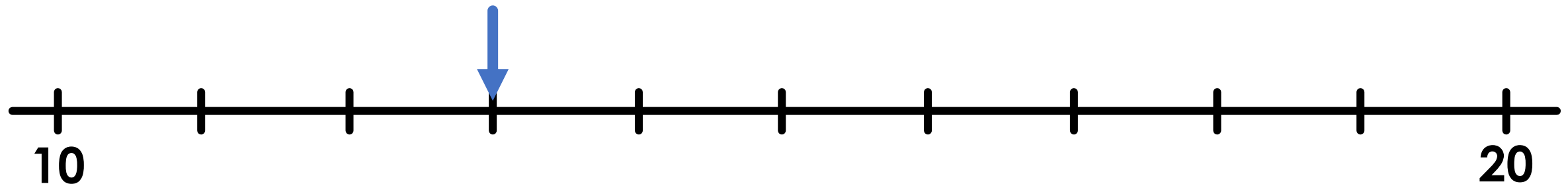
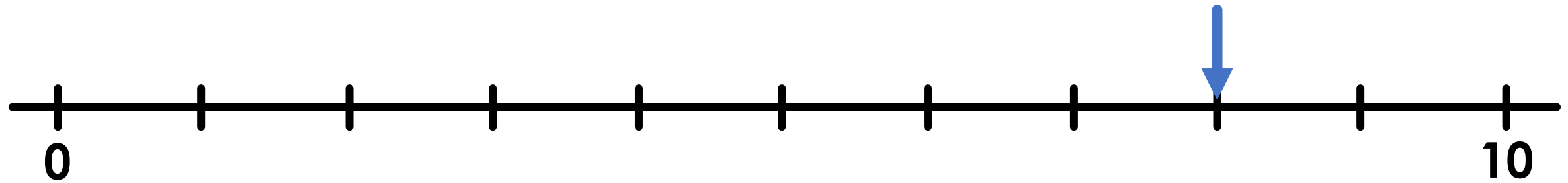
Which numbers are at the arrows?



Number Line Intervals

Part 2

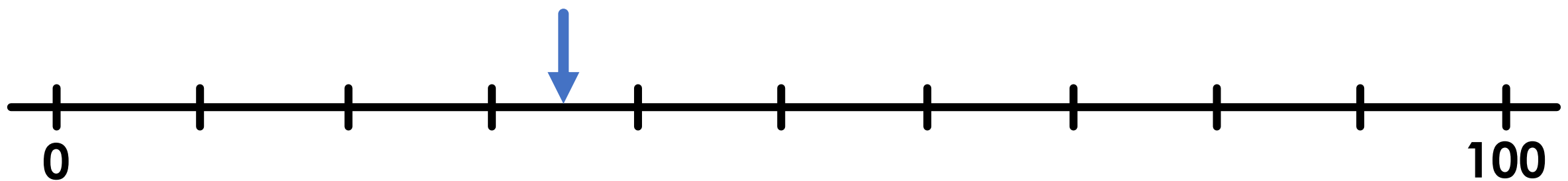
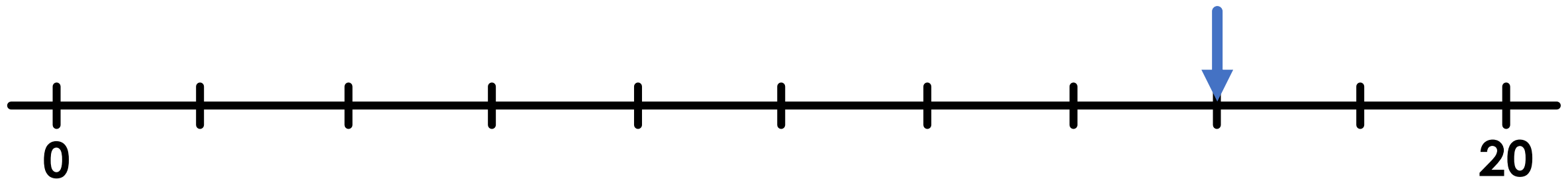
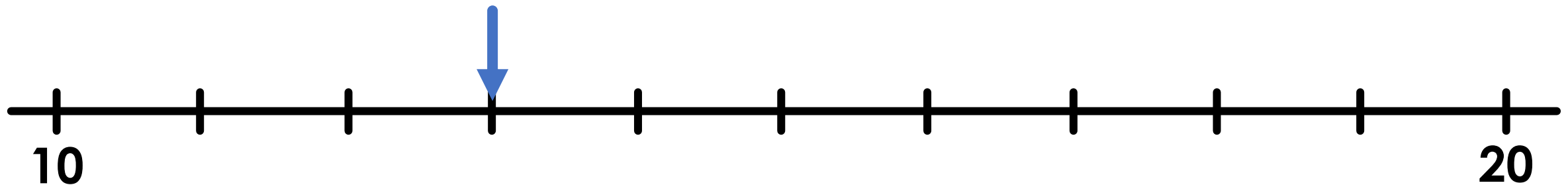
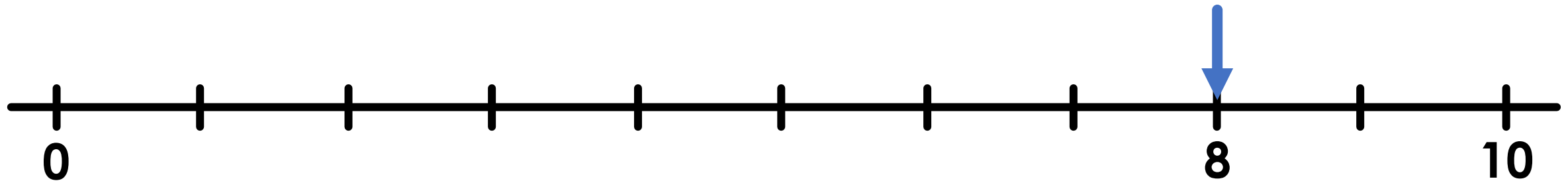
Which numbers are at the arrows?



Number Line Intervals

Part 2

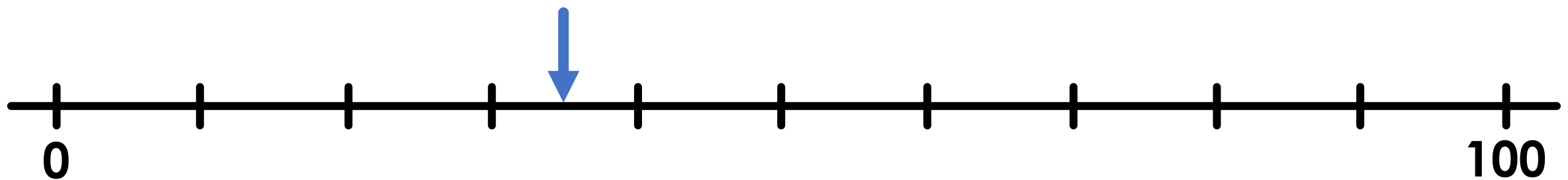
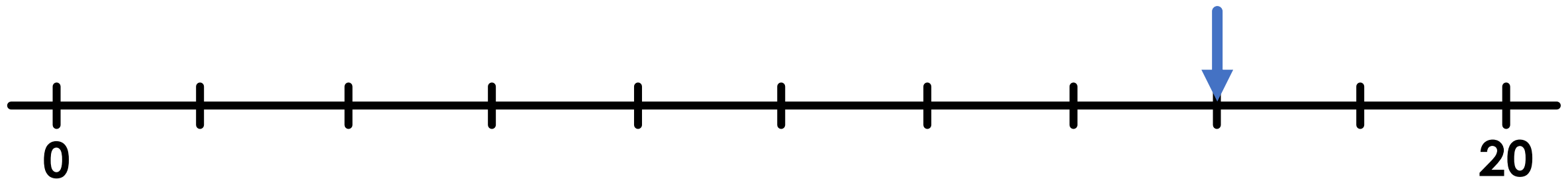
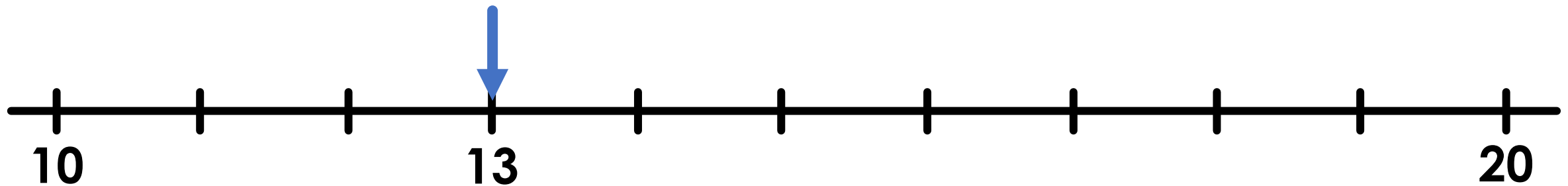
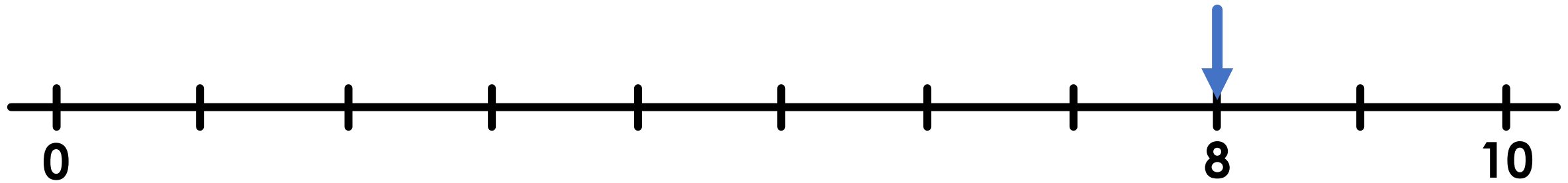
Which numbers are at the arrows?



Number Line Intervals

Part 2

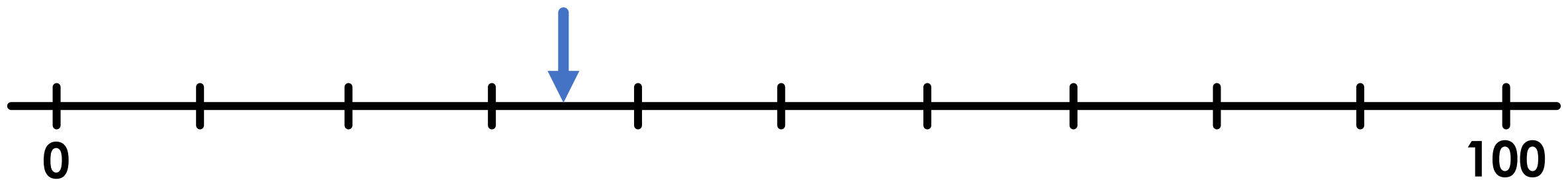
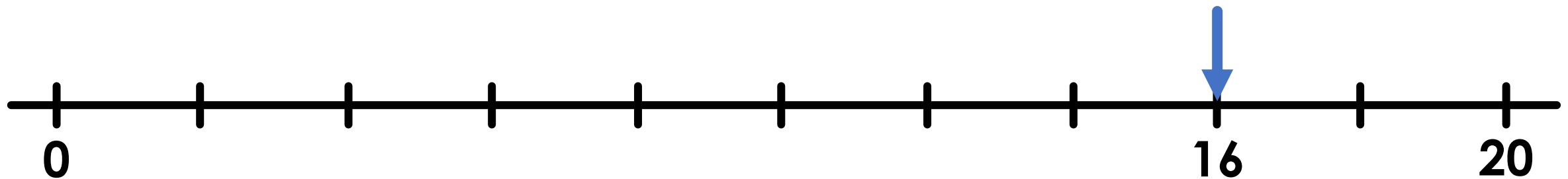
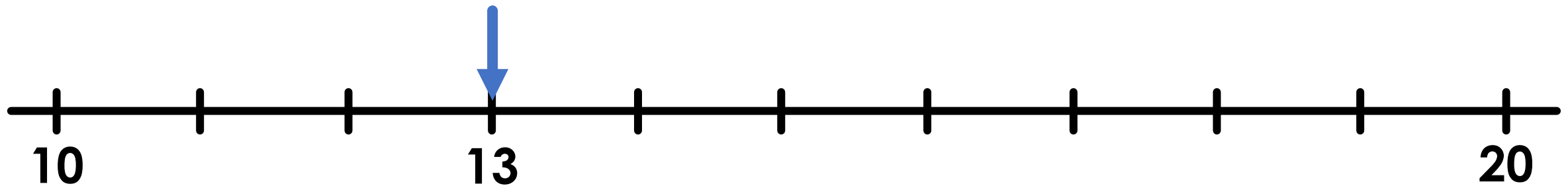
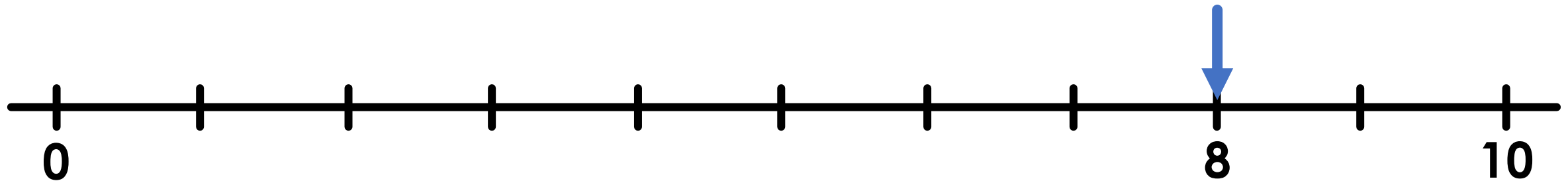
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Number Line Intervals

Part 2

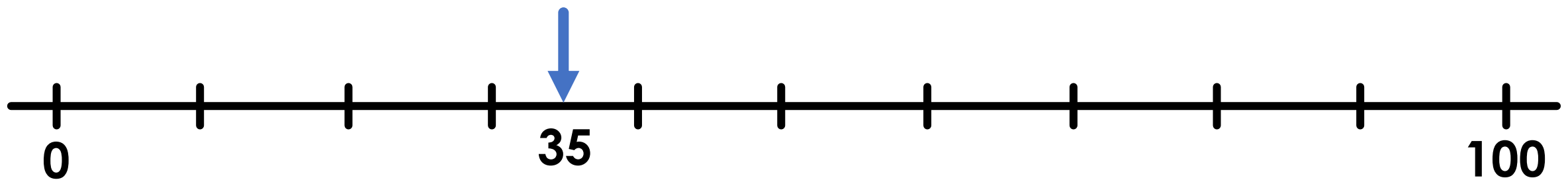
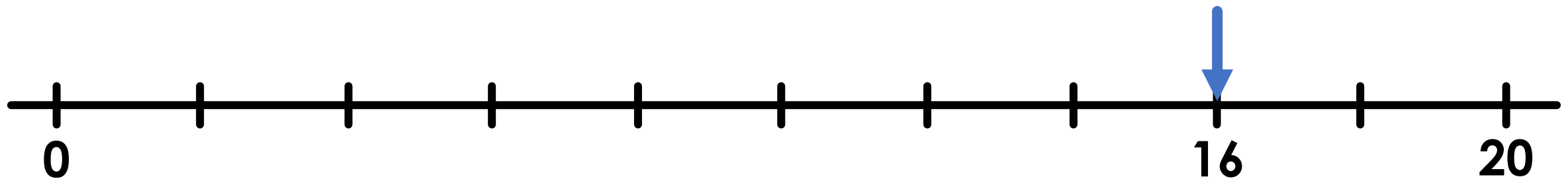
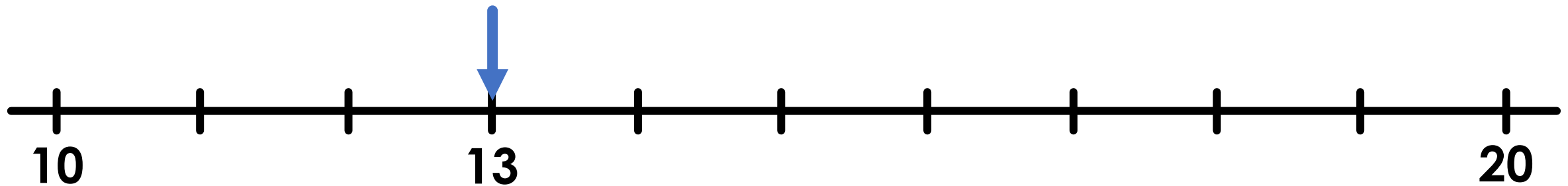
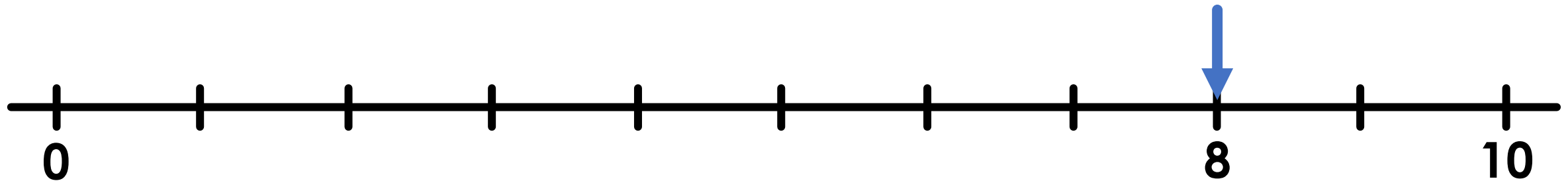
Which numbers are at the arrows?



Number Line Intervals

Part 2

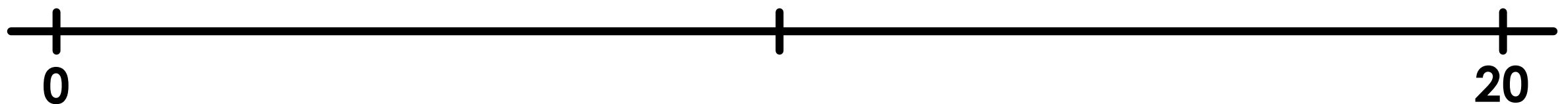
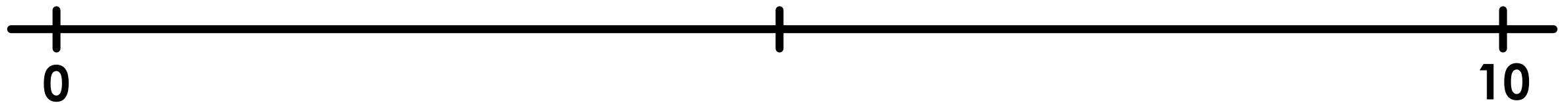
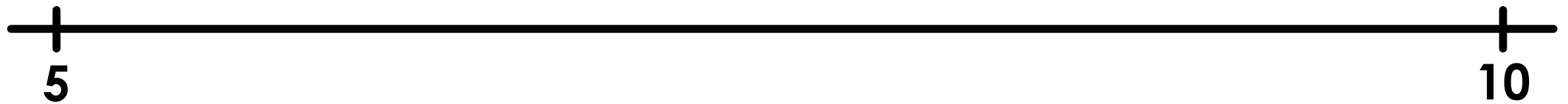
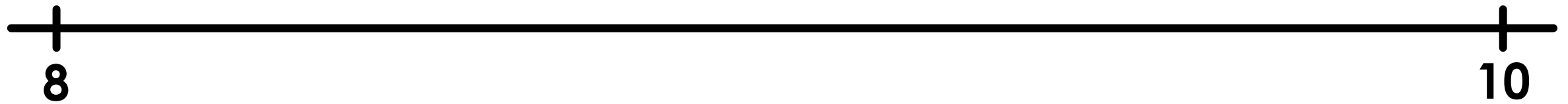
Which numbers are at the arrows?



Reading Number Lines

Part 1

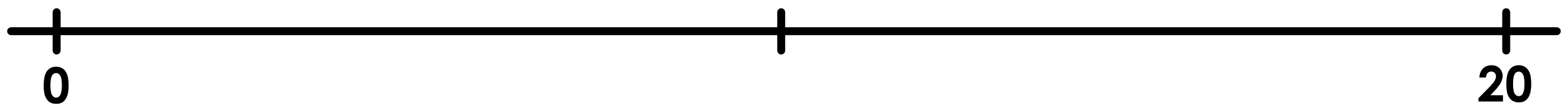
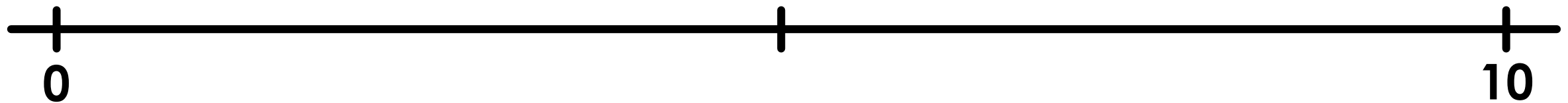
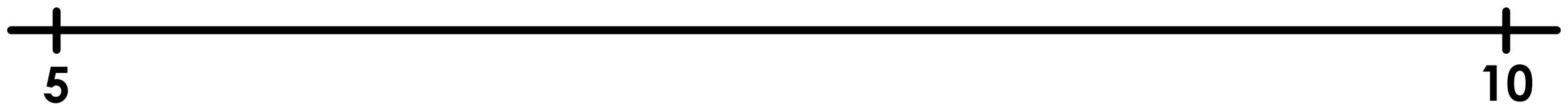
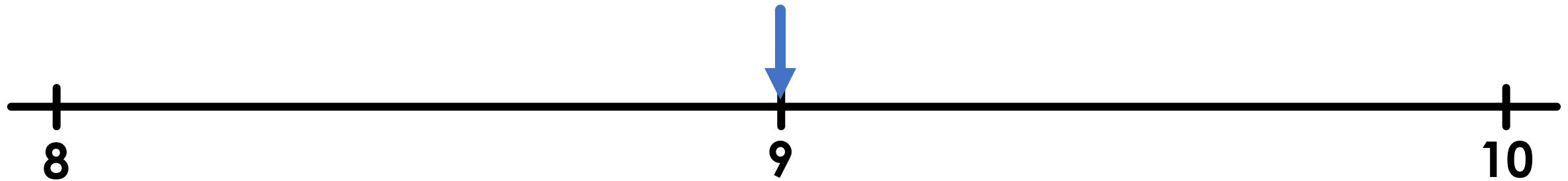
Put **9** on each number line:



Reading Number Lines

Part 1

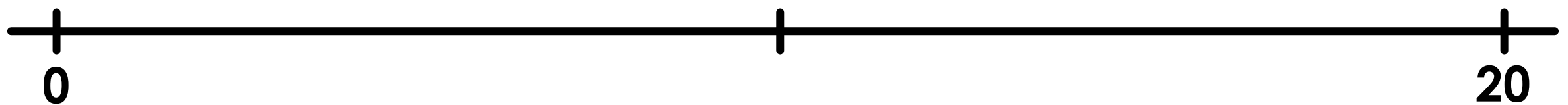
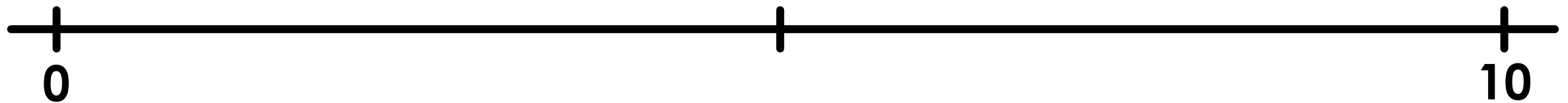
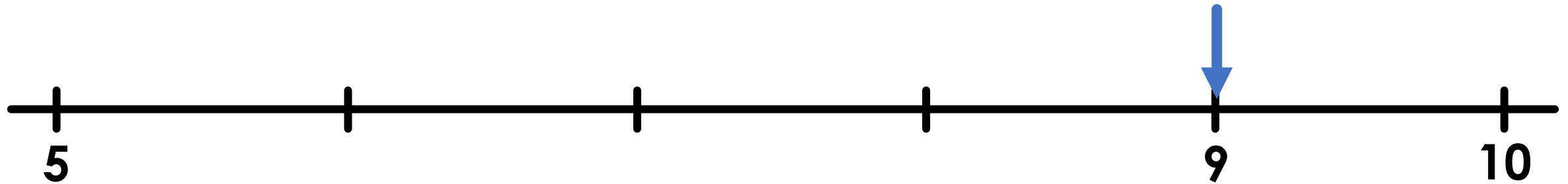
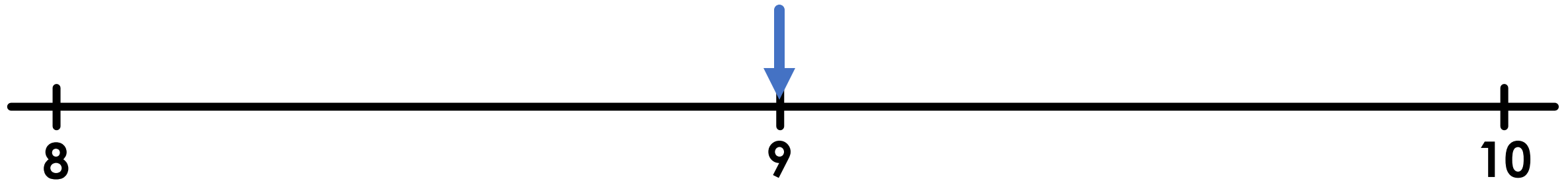
Put **9** on each number line:



Reading Number Lines

Part 1

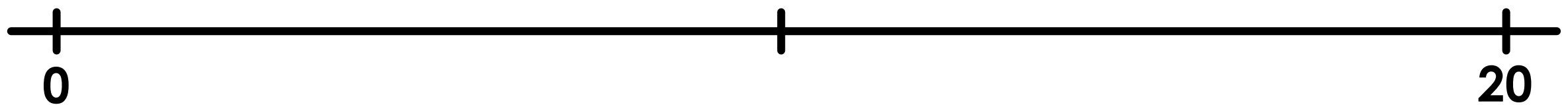
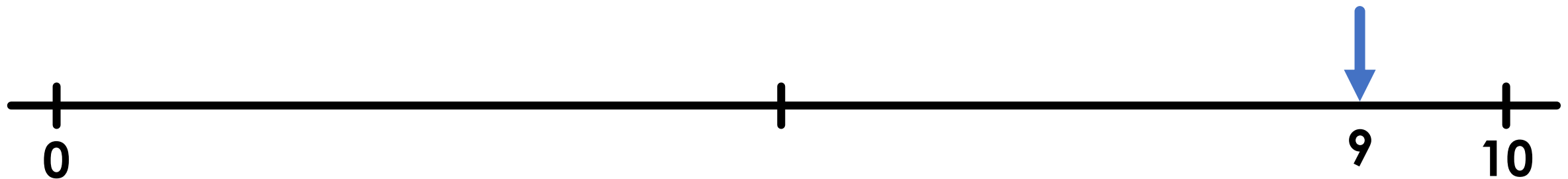
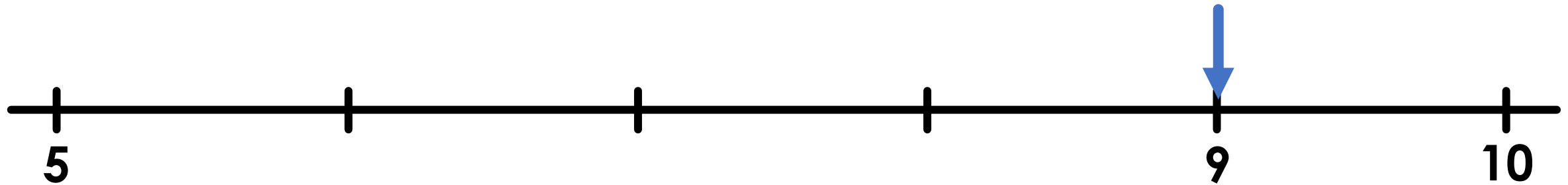
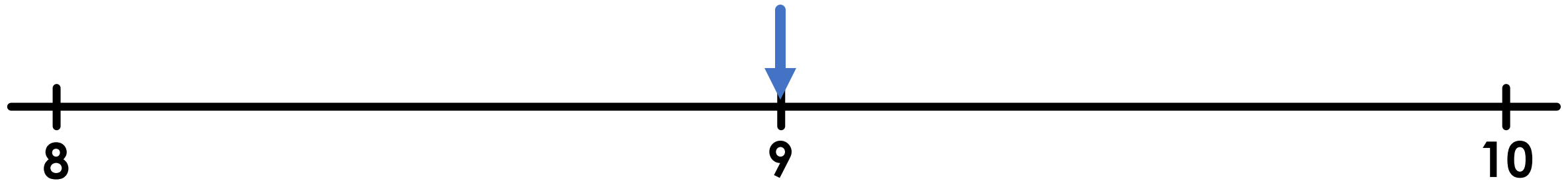
Put **9** on each number line:



Reading Number Lines

Part 1

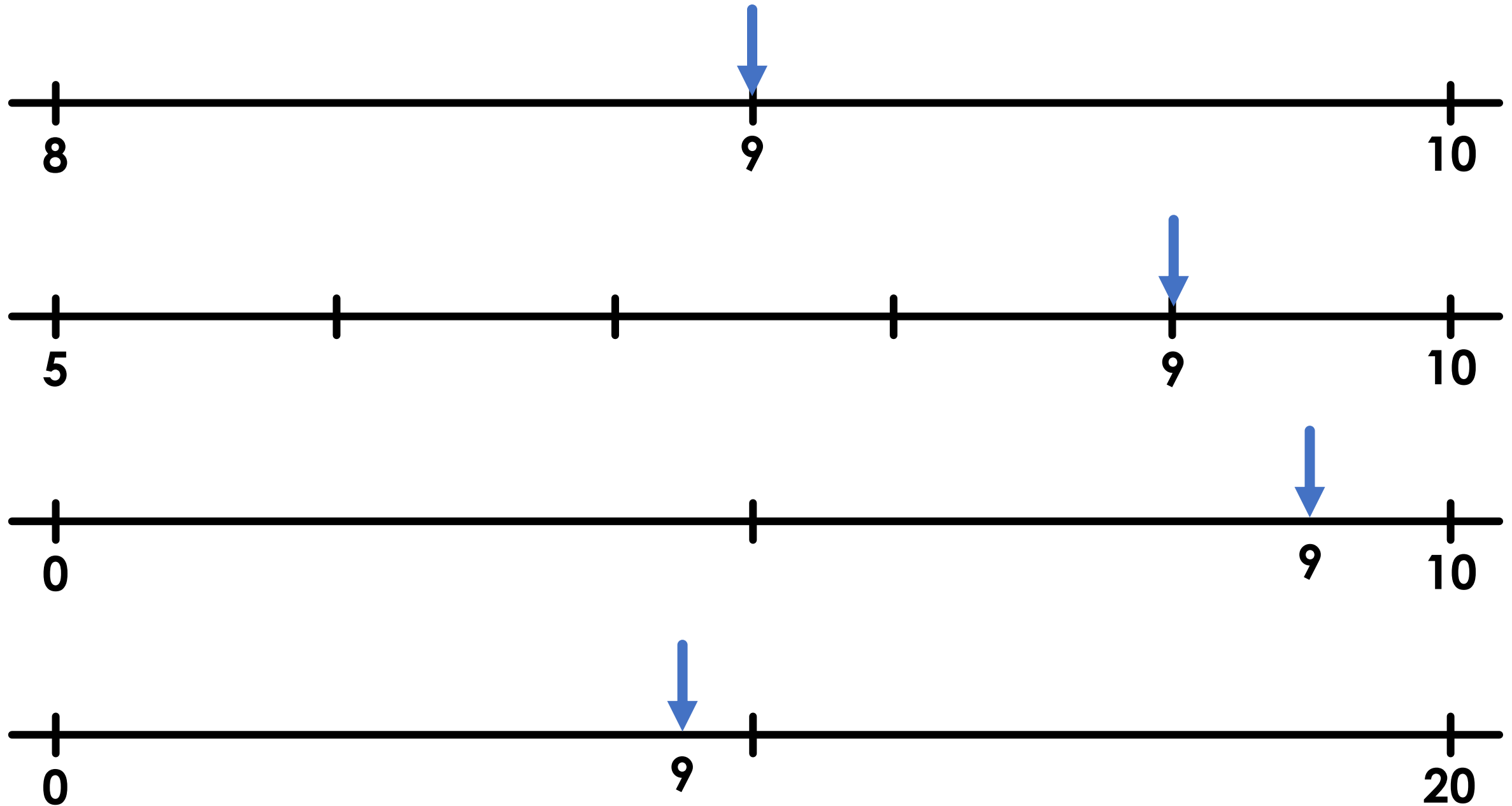
Put **9** on each number line:



Reading Number Lines

Part 1

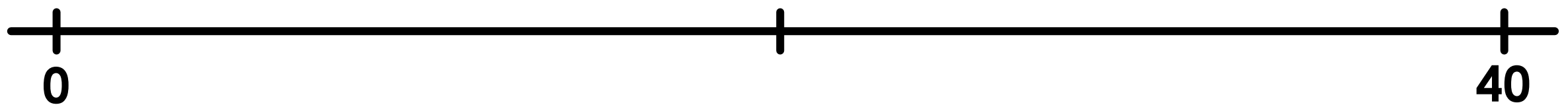
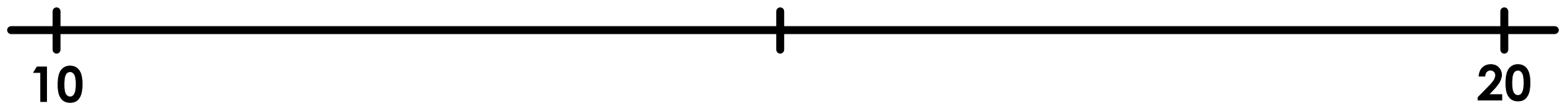
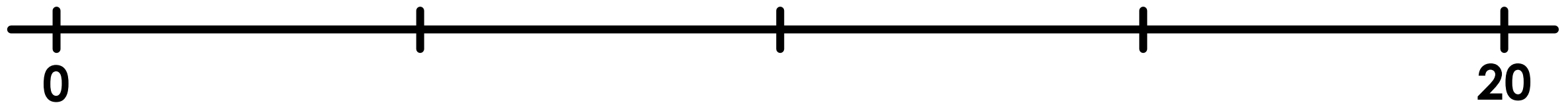
Put **9** on each number line:



Reading Number Lines

Part 2

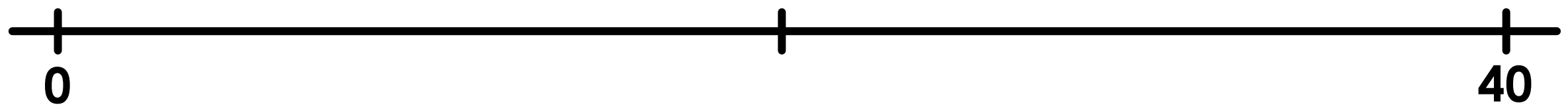
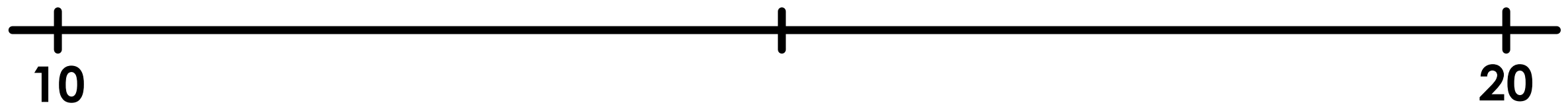
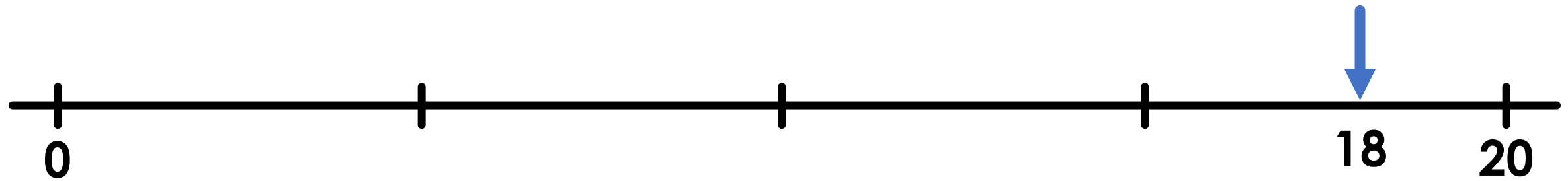
Put **18** on each number line:



Reading Number Lines

Part 2

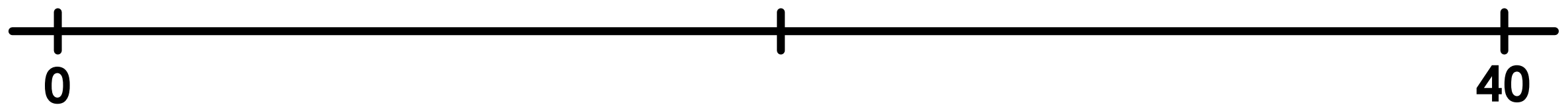
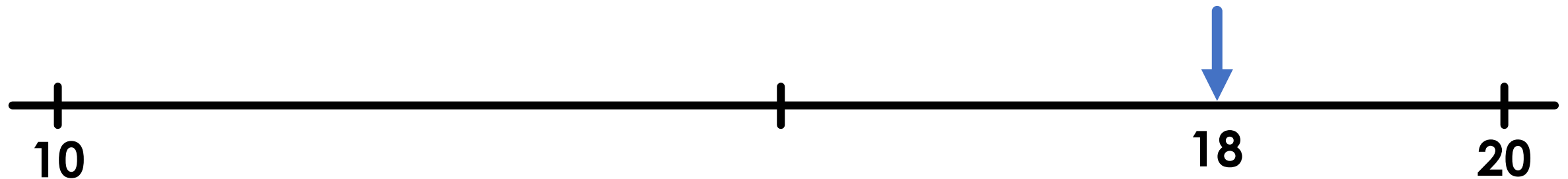
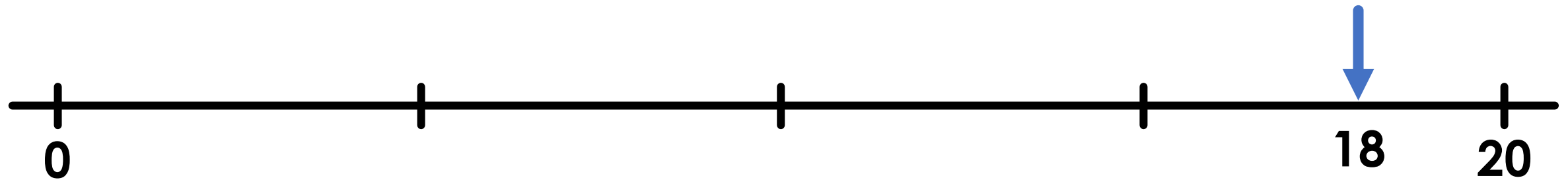
Put **18** on each number line:



Reading Number Lines

Part 2

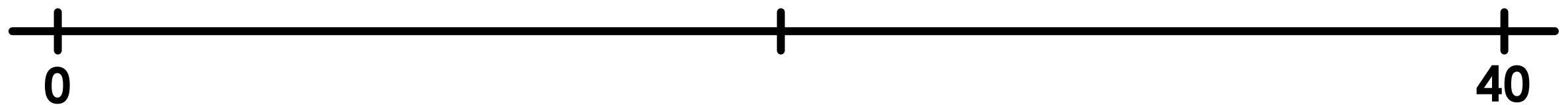
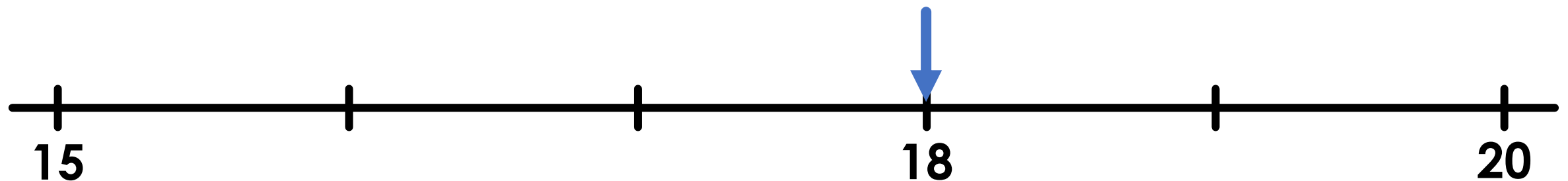
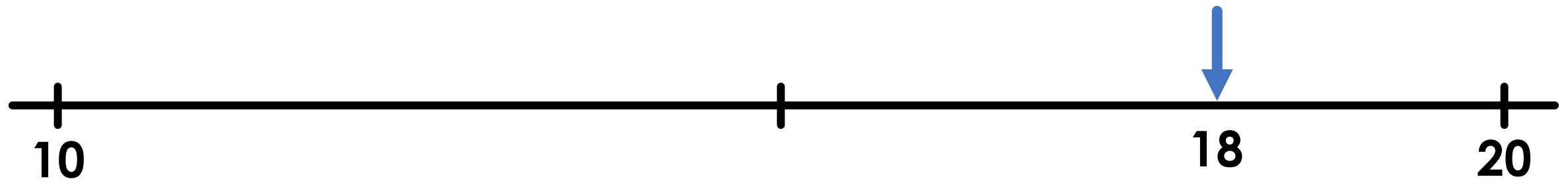
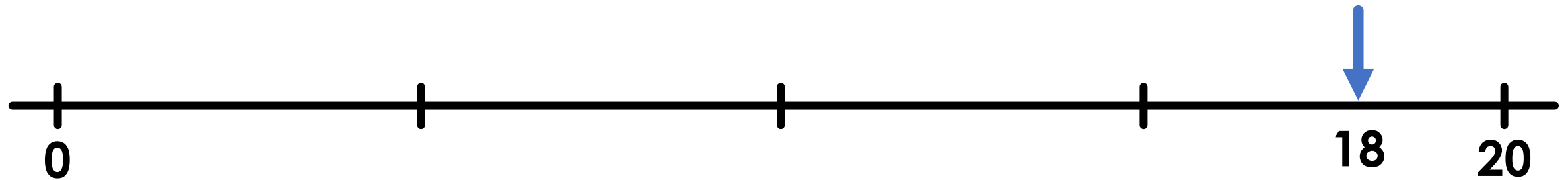
Put **18** on each number line:



Reading Number Lines

Part 2

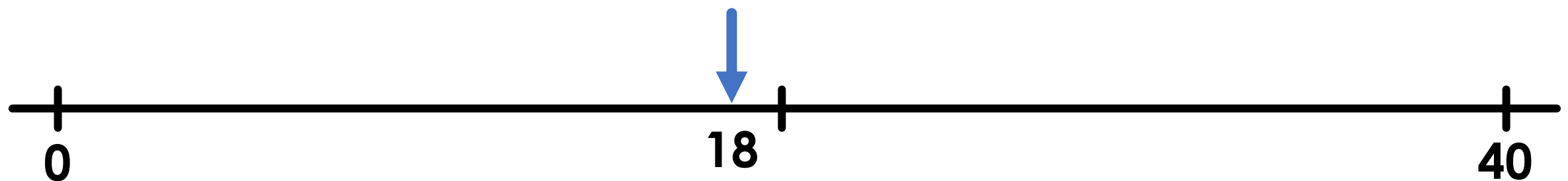
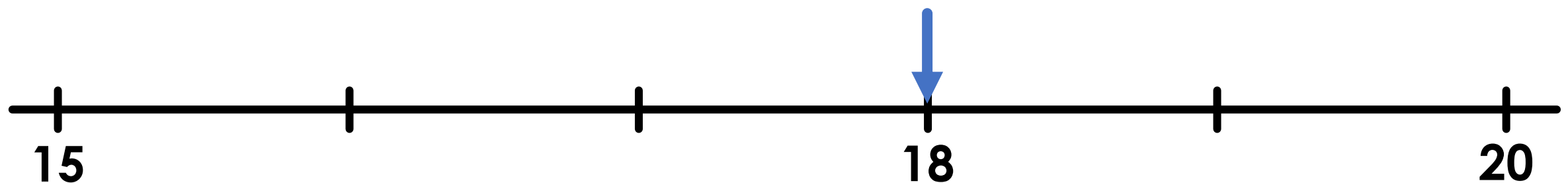
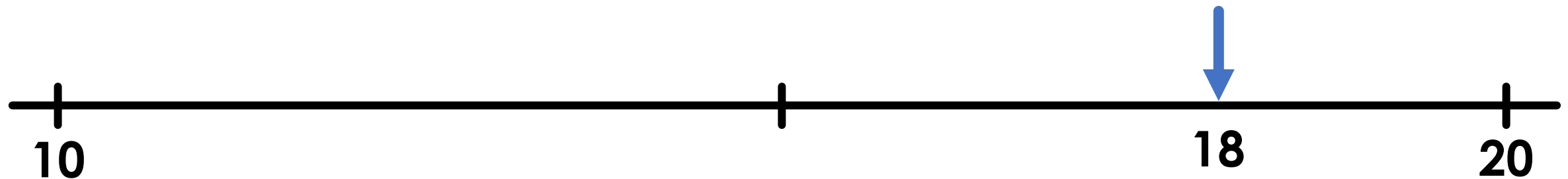
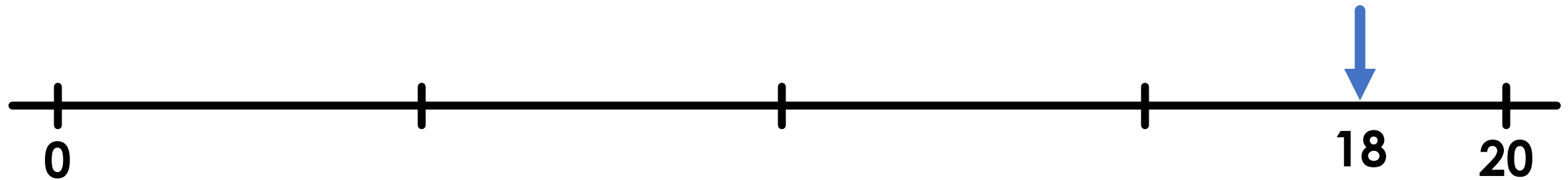
Put **18** on each number line:



Reading Number Lines

Part 2

Put **18** on each number line:



Patterns in Counting

Part 1

What next?

0	0	1	1	2	2	3
---	---	---	---	---	---	---



□	△	□	△	□	△	□
---	---	---	---	---	---	---



□	□	□	□	□	○	○	○	○	○	◇
---	---	---	---	---	---	---	---	---	---	---



0	0	0	0	0	0	0
---	---	---	---	---	---	---



Patterns in Counting

Part 1

What next?

0	0	1	1	2	2	3	3	4	4	5	5
---	---	---	---	---	---	---	---	---	---	---	---

□	△	□	△	□	△	□
---	---	---	---	---	---	---



□	□	□	□	□	○	○	○	○	○	◇
---	---	---	---	---	---	---	---	---	---	---



0	0	0	0	0	0	0
---	---	---	---	---	---	---



Patterns in Counting

Part 1

What next?

0	0	1	1	2	2	3	3	4	4	5	5
---	---	---	---	---	---	---	---	---	---	---	---

□	△	□	△	□	△	□	△	□	△	□	△
---	---	---	---	---	---	---	---	---	---	---	---

□	□	□	□	□	○	○	○	○	○	◇
---	---	---	---	---	---	---	---	---	---	---



0	0	0	0	0	0	0
---	---	---	---	---	---	---



Patterns in Counting

Part 1

What next?

0	0	1	1	2	2	3	3	4	4	5	5
---	---	---	---	---	---	---	---	---	---	---	---

□	△	□	△	□	△	□	△	□	△	□	△
---	---	---	---	---	---	---	---	---	---	---	---

□	□	□	□	□	○	○	○	○	○	◇	◇	◇	◇	◇
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

0	0	0	0	0	0	0
---	---	---	---	---	---	---



Patterns in Counting

Part 1

What next?

0	0	1	1	2	2	3	3	4	4	5	5
---	---	---	---	---	---	---	---	---	---	---	---

□	△	□	△	□	△	□	△	□	△	□	△
---	---	---	---	---	---	---	---	---	---	---	---

□	□	□	□	□	○	○	○	○	○	◇	◇	◇	◇	◇
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

0	0	0	0	0	0	0	0	0	0	0	0	0
---	---	---	---	---	---	---	---	---	---	---	---	---

Patterns in Counting

Part 2

Match a number pattern to a shape pattern.

4	4	5	5	6	6
---	---	---	---	---	---

+	+	△	△	+	+
---	---	---	---	---	---

4	6	4	6	4	6
---	---	---	---	---	---

+	+	△	△	☆	☆
---	---	---	---	---	---

4	4	5	5	4	4
---	---	---	---	---	---

+	☆	+	☆	+	☆
---	---	---	---	---	---

Match a number pattern to a shape pattern.

4	4	5	5	6	6	+	+	△	△	+	+
4	6	4	6	4	6	+	+	△	△	☆	☆
4	4	5	5	4	4	+	☆	+	☆	+	☆

Blue arrows indicate the following matches:

- Number pattern (4, 4, 5, 5, 6, 6) matches Shape pattern (+, +, △, △, +, +)
- Number pattern (4, 6, 4, 6, 4, 6) matches Shape pattern (+, +, △, △, ☆, ☆)
- Number pattern (4, 4, 5, 5, 4, 4) matches Shape pattern (+, ☆, +, ☆, +, ☆)

Patterns in Counting

Part 3

0	2	4	6	8
10	12	14	16	18

Patterns in Counting

Part 3

0	2	4	6	8
10	12	14	16	18
20	22	24	26	28
30	32	34	36	38

Patterns in Counting

Part 3

0	2	4	6	8
10	12	14	16	18
20	22	24	26	28
30	32	34	36	38

Pattern in **ones value**:

Patterns in Counting

Part 3

0	2	4	6	8
10	12	14	16	18
20	22	24	26	28
30	32	34	36	38

Pattern in **ones value**: 0, 2, 4, 6, 8 repeats.

Patterns in Counting

Part 3

0	2	4	6	8
10	12	14	16	18
20	22	24	26	28
30	32	34	36	38

Pattern in **ones value**: 0, 2, 4, 6, 8 repeats.

Pattern in **tens value**:

Patterns in Counting

Part 3

0	2	4	6	8
10	12	14	16	18
20	22	24	26	28
30	32	34	36	38

Pattern in **ones value**: 0, 2, 4, 6, 8 repeats.

Pattern in **tens value**: one more ten every five numbers.

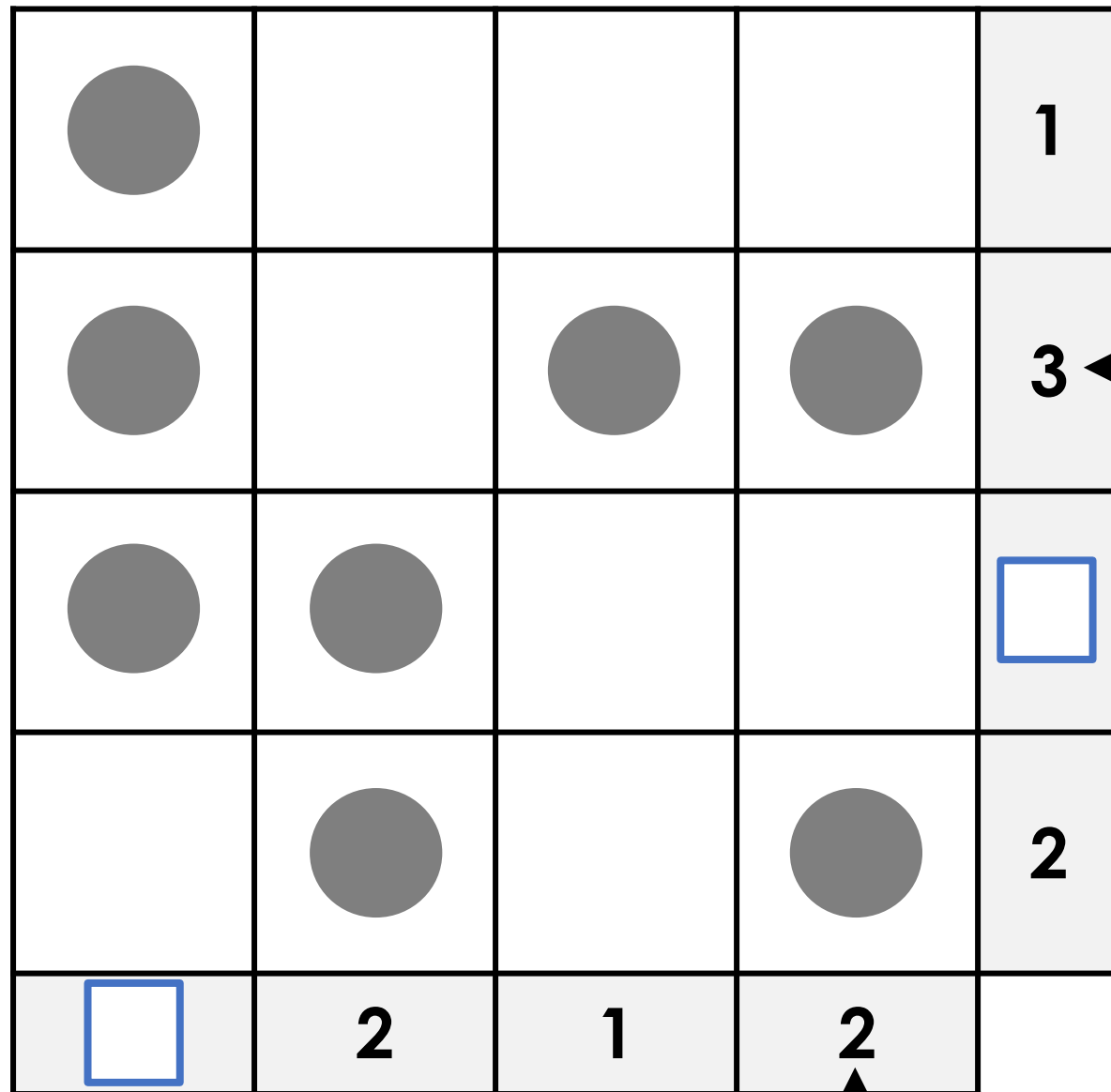
Dots in a Grid

Part 1

				1
				3
				<input type="text"/>
				2
<input type="text"/>	2	1	2	

Dots in a Grid

Part 1

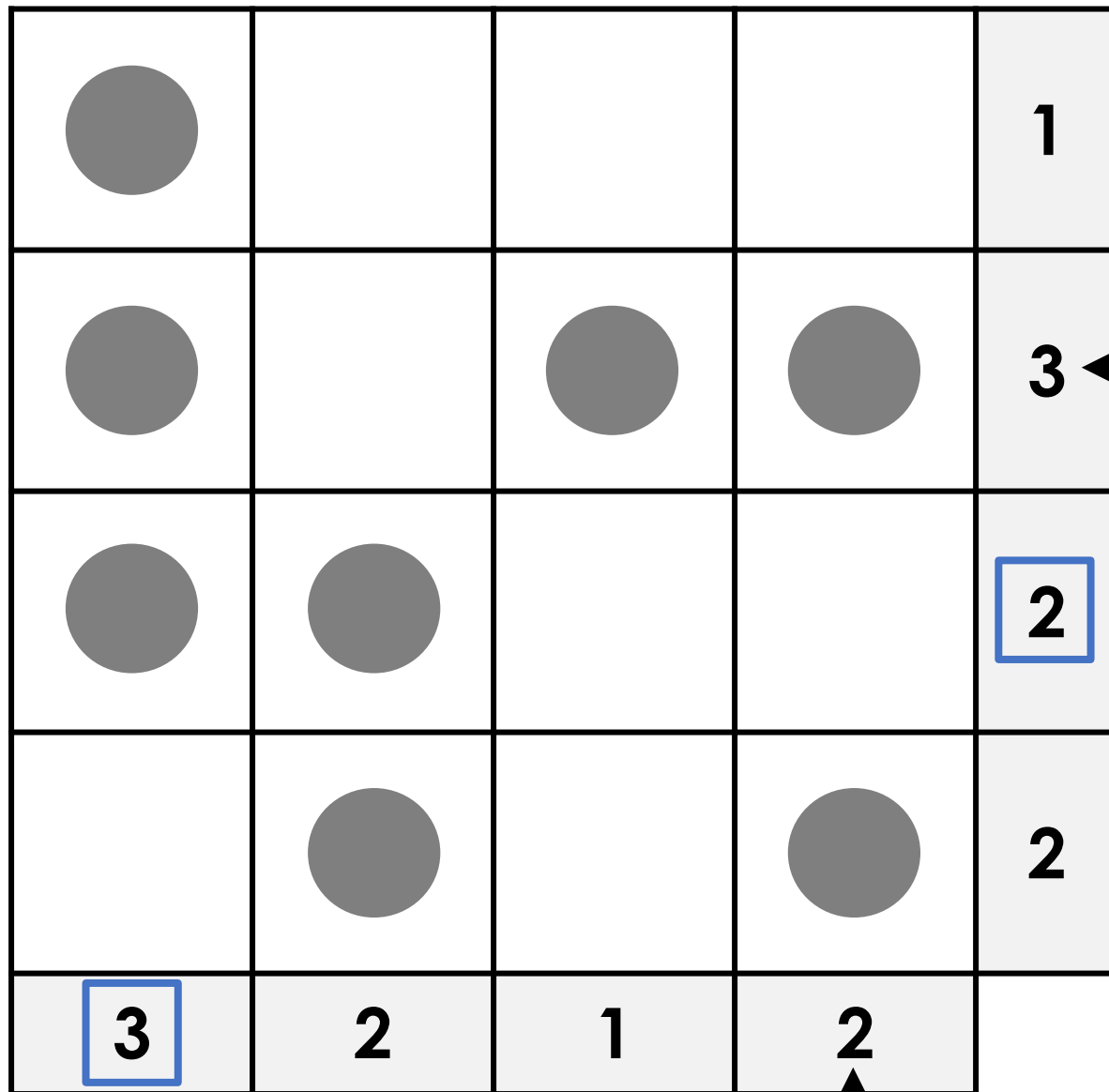


← **3 circles in this row**

2 circles in this column

Dots in a Grid

Part 1



3 circles in this row

2 circles in this column

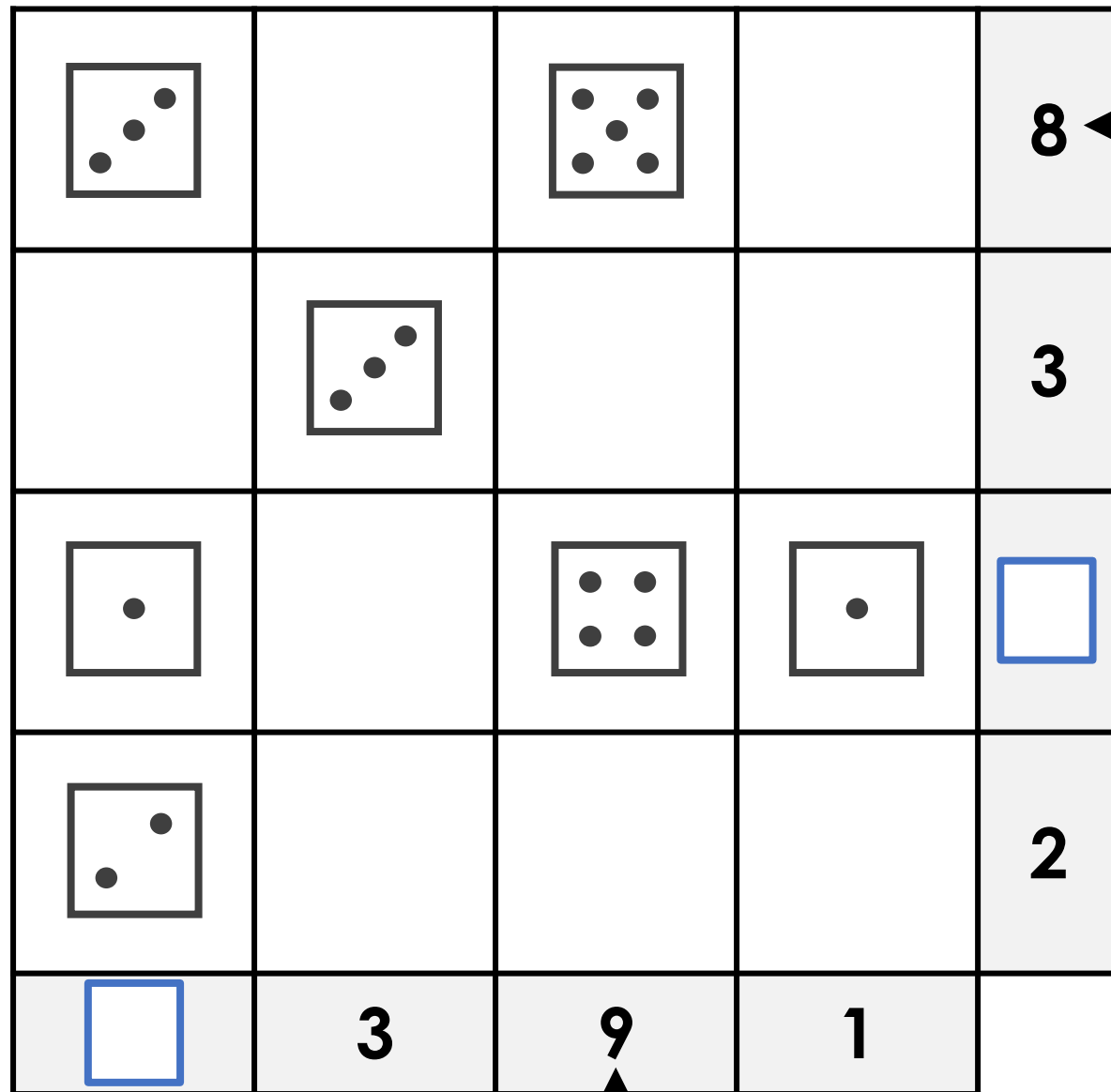
Dots in a Grid

Part 2

				8
				3
				<input type="text"/>
				2
<input type="text"/>	3	9	1	

Dots in a Grid

Part 2



8 dots in this row

9 dots in this column

Dots in a Grid

Part 2

				8
				3
				6
				2
6	3	9	1	

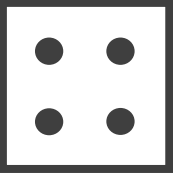
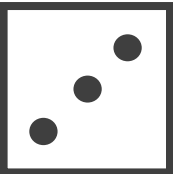
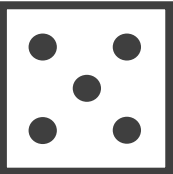
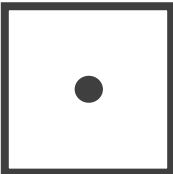
8 dots in this row

9 dots in this column

Dots in a Grid

Part 3

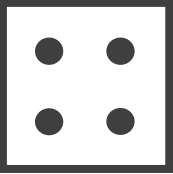
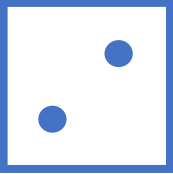
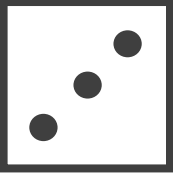
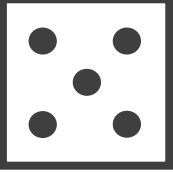
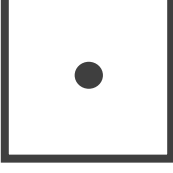
Which square has a missing dice?

			6
			3
			6
9	5	1	

Dots in a Grid

Part 3

Which square has a missing dice?

			6
			3
			6
9	5	1	

Dots in a Grid

Part 3

Spot the Mistake

			6
			5
			2
7	3	3	

One of the dice is in the wrong place.

Dots in a Grid

Part 3

Spot the Mistake

			6
			5
			2
7	3	3	

One of the dice is in the wrong place.

Dots in a Grid

Part 3

			6
			5
			2
7	3	3	

Digits in a Grid

Part 1

1		3		4
	4		3	7
		2		2
5	2	1		<input type="text"/>
6	<input type="text"/>	6	3	

Digits in a Grid

Part 1

1		3		4
	4		3	7
		2		2
5	2	1		<input type="text"/>
6	<input type="text"/>	6	3	

Sum for row = 4

Sum for column = 6

Digits in a Grid

Part 1

1		3		4
	4		3	7
		2		2
5	2	1		8
6	6	6	3	

Sum for row = 4

Sum for column = 6

Digits in a Grid

Part 2

Spot the Mistake

1		5		6
	2			2
2		3		5
		1	5	6
3	2	6	8	

One of the digits is in the wrong place.

Digits in a Grid

Part 2

Spot the Mistake

1		5		6
	2			2
2		3		5
		1	5	6
3	2	6	8	

One of the digits is in the wrong place.

Digits in a Grid

Part 2

1		5		6
	2			2
2			3	5
		1	5	6
3	2	6	8	

Addition Bordering Tens

Part 1

I know... so...

$$8 + 7 = \square$$

The diagram shows two ten-frames. The first ten-frame contains 8 blue circles: 5 in the top row and 3 in the bottom row. The second ten-frame contains 7 red circles: 5 in the top row and 2 in the bottom row. A plus sign is placed between the two ten-frames.

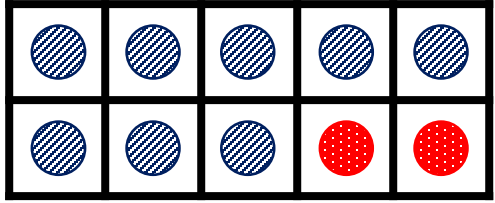
$$9 + 7 = \square$$

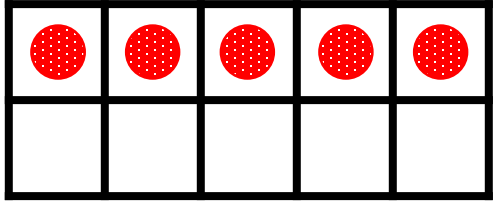
$$19 + 7 = \square$$

Addition Bordering Tens

Part 1

I know... so...

$$8 + 7 = \square$$


$$+$$


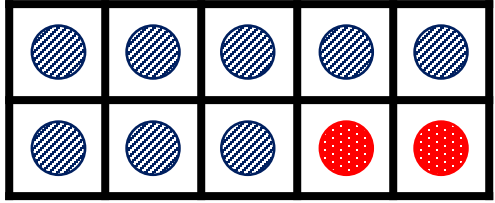
$$9 + 7 = \square$$

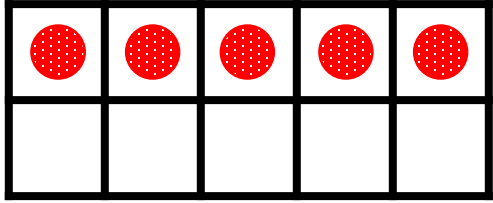
$$19 + 7 = \square$$

Addition Bordering Tens

Part 1

I know... so...

$$8 + 7 = \boxed{15}$$


$$+$$


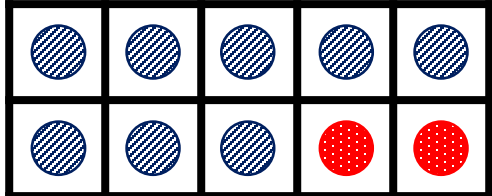
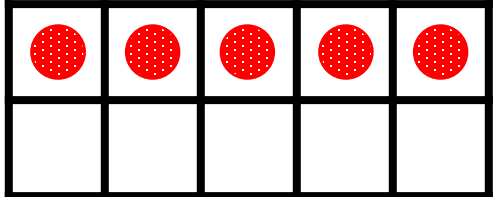
$$9 + 7 = \boxed{}$$

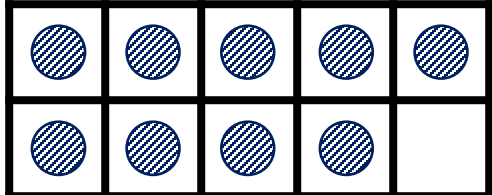
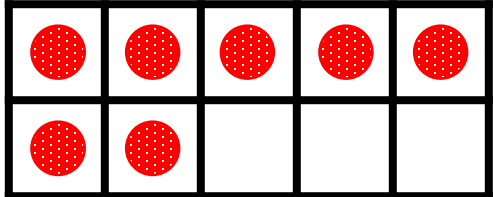
$$19 + 7 = \boxed{}$$

Addition Bordering Tens

Part 1

I know... so...

$8 + 7 = \boxed{15}$

 $+$


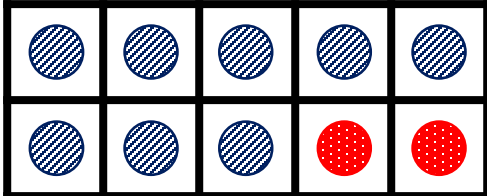
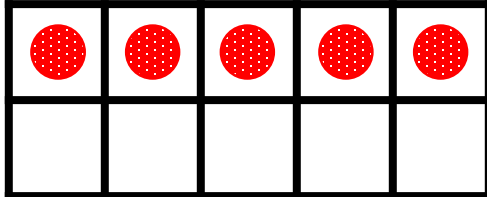
$9 + 7 = \boxed{}$

 $+$


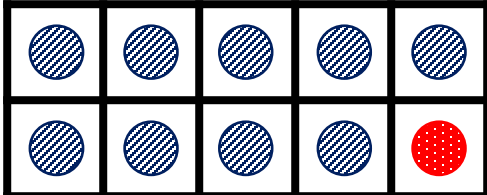
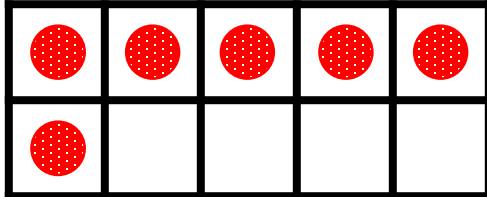
$19 + 7 = \boxed{}$

Addition Bordering Tens

Part 1

I know... so...

$8 + 7 = \boxed{15}$

 $+$


$9 + 7 = \boxed{}$

 $+$


$19 + 7 = \boxed{}$

Addition Bordering Tens

Part 1

I know... so...

$8 + 7 = \boxed{15}$

$9 + 7 = \boxed{16}$

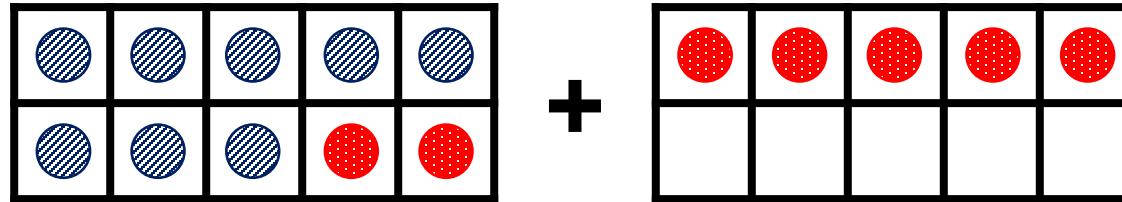
$19 + 7 = \boxed{}$

Addition Bordering Tens

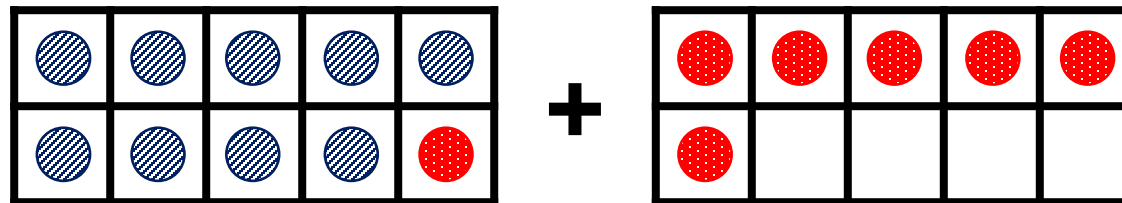
Part 1

I know... so...

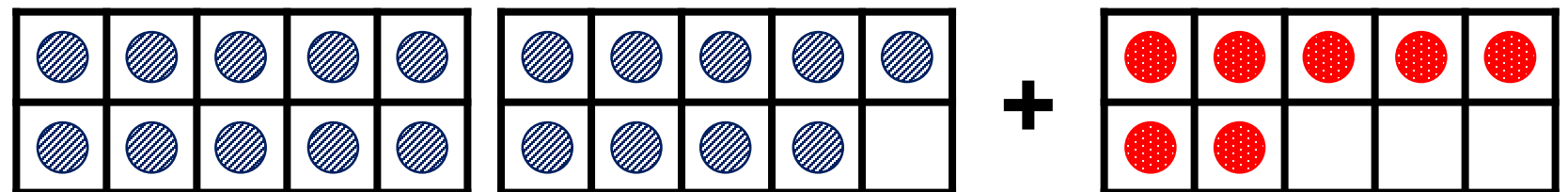
$$8 + 7 = \boxed{15}$$



$$9 + 7 = \boxed{16}$$



$$19 + 7 = \boxed{}$$

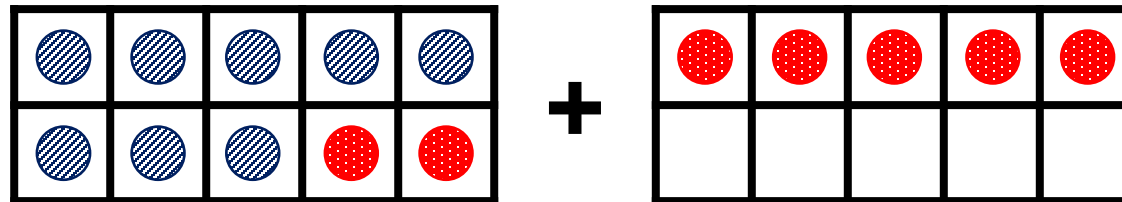


Addition Bordering Tens

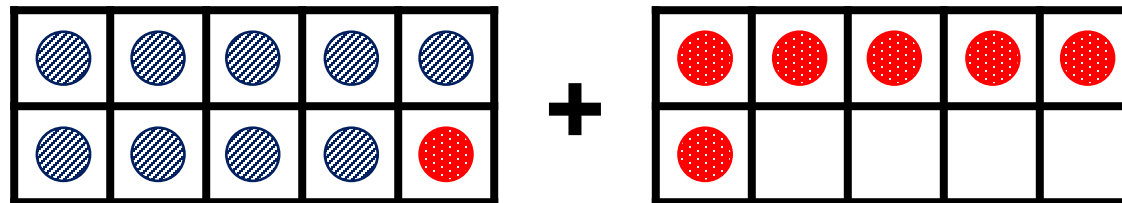
Part 1

I know... so...

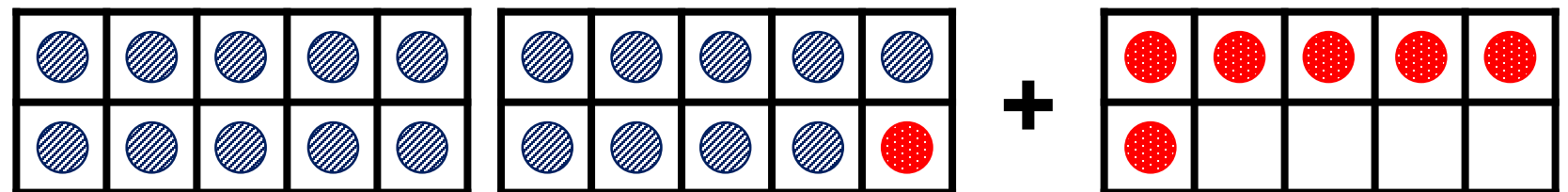
$$8 + 7 = \boxed{15}$$



$$9 + 7 = \boxed{16}$$



$$19 + 7 = \boxed{}$$

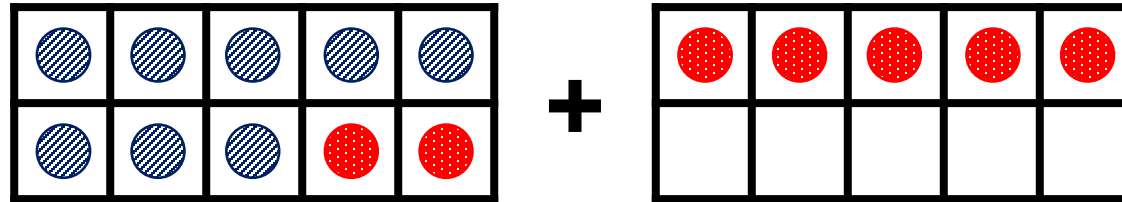


Addition Bordering Tens

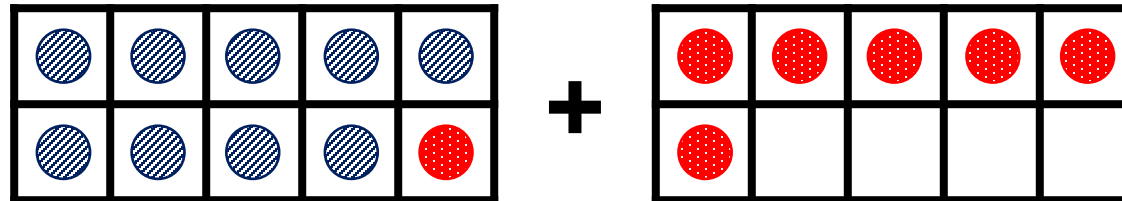
Part 1

I know... so...

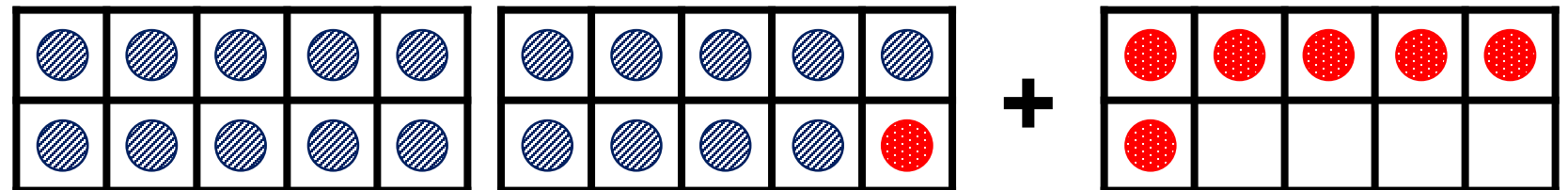
$$8 + 7 = \boxed{15}$$



$$9 + 7 = \boxed{16}$$



$$19 + 7 = \boxed{26}$$



Addition Bordering Tens

Part 2

Answer using 4 of the digits:

$$\square + \square = \square \square$$

1

3

4

5

8

9

Addition Bordering Tens

Part 2

Answer using 4 of the digits:

Explain the Mistake

$$\square + \square = \square \square$$

1

3

4

5

8

9

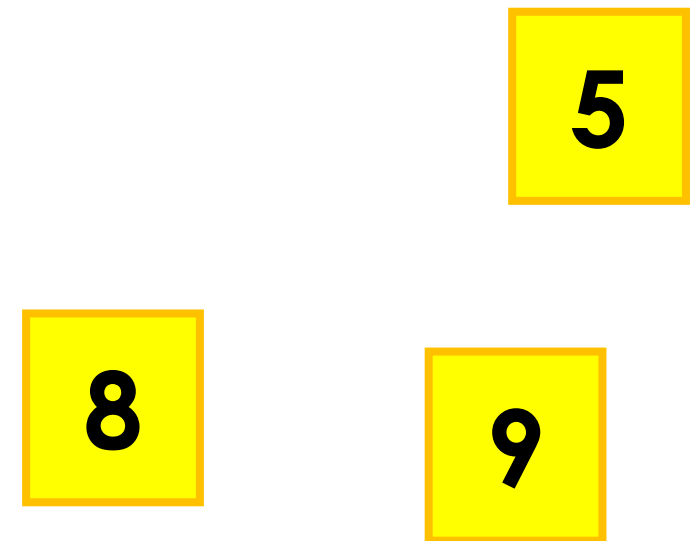
Addition Bordering Tens

Part 2

Answer using 4 of the digits:

Explain the Mistake

$$\boxed{3} + \boxed{1} = \boxed{} \boxed{4}$$



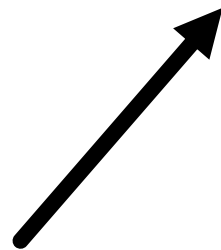
Addition Bordering Tens

Part 2

Answer using 4 of the digits:

Explain the Mistake

$$\boxed{3} + \boxed{1} = \boxed{}\boxed{4}$$



**no tens value,
only used 3 digits**



Addition Bordering Tens

Part 2

Answer using 4 of the digits:

Example Answer

$$\boxed{9} + \boxed{4} = \boxed{1} \boxed{3}$$

$$\boxed{5}$$

$$\boxed{8}$$

Addition Bordering Tens

Part 2

Answer using 5 of the digits:

$$\square\square + \square = \square\square$$

1

3

4

5

8

9

Addition Bordering Tens

Part 2

Answer using 5 of the digits:

Explain the Mistake

$$\square\square + \square = \square\square$$

1

3

4

5

8

9

Addition Bordering Tens

Part 2

Answer using 5 of the digits:

Explain the Mistake

$$\boxed{1} \boxed{3} + \boxed{5} = \boxed{1} \boxed{8} \quad \boxed{4}$$

$$\boxed{9}$$

Addition Bordering Tens

Part 2

Answer using 5 of the digits:

Explain the Mistake

$$\boxed{1} \boxed{3} + \boxed{5} = \boxed{1} \boxed{8}$$

4

9

used 1 twice

Addition Bordering Tens

Part 2

Answer using 5 of the digits:

Example Answer

$$\boxed{4} \boxed{8} + \boxed{3} = \boxed{5} \boxed{1}$$

$$\boxed{9}$$

Subtraction Bordering Tens

Part 1

Which number sentence is correct?

Subtraction Bordering Tens

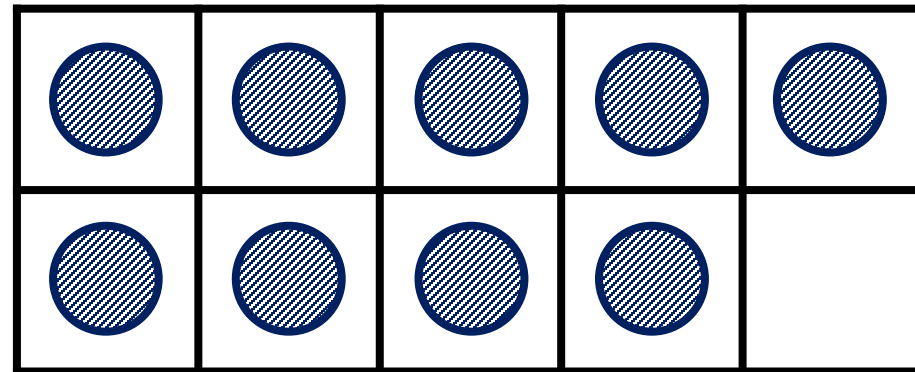
Part 1

Which number sentence is correct?

$$9 - 4 = 5$$

$$5 - 4 = 9$$

$$9 - 4 = 6$$



Subtraction Bordering Tens

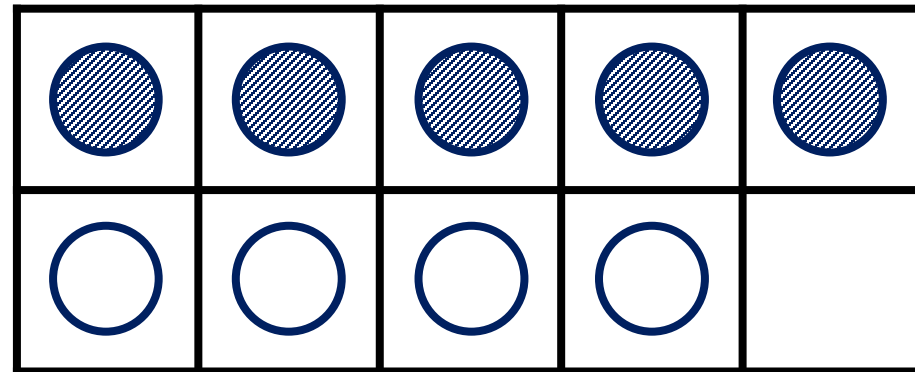
Part 1

Which number sentence is correct?

$$9 - 4 = 5$$

$$5 - 4 = 9$$

$$9 - 4 = 6$$



Subtraction Bordering Tens

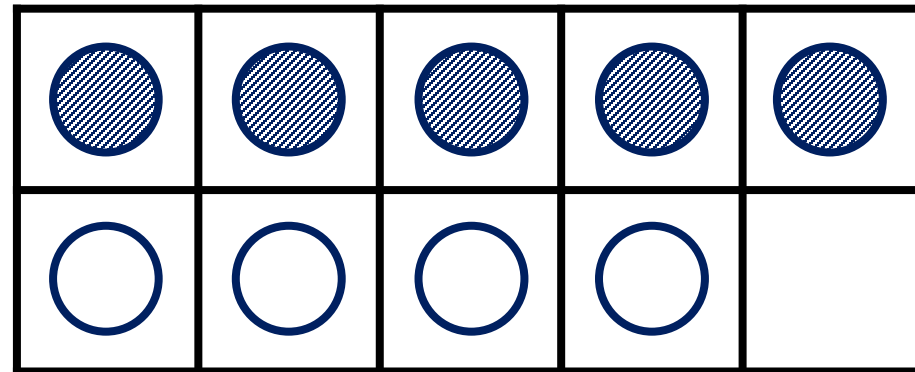
Part 1

Which number sentence is correct?

$$9 - 4 = 5 \quad \checkmark$$

$$5 - 4 = 9 \quad \times$$

$$9 - 4 = 6 \quad \times$$



Subtraction Bordering Tens

Part 1

Which number sentence is correct?

Subtraction Bordering Tens

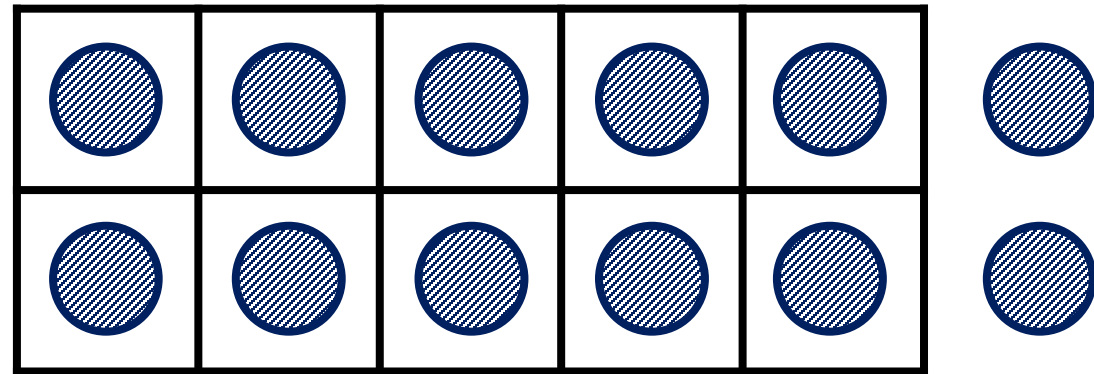
Part 1

Which number sentence is correct?

$$12 - 5 = 8$$

$$12 - 5 = 7$$

$$5 - 12 = 7$$



Subtraction Bordering Tens

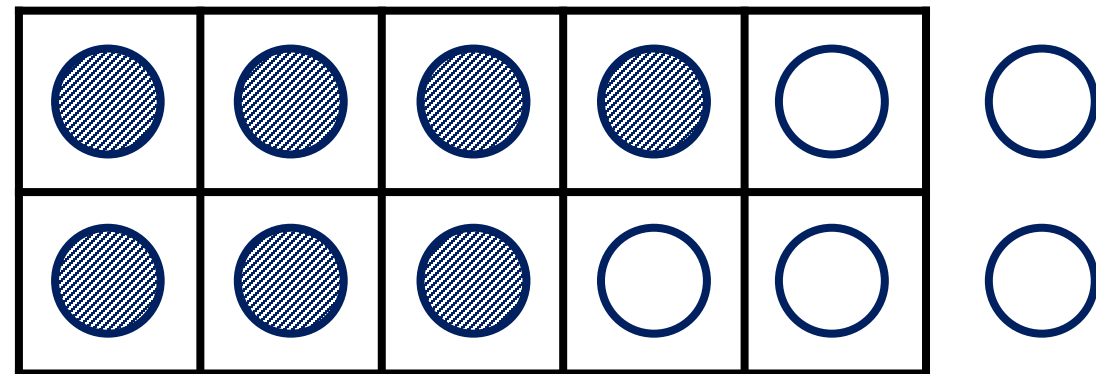
Part 1

Which number sentence is correct?

$$12 - 5 = 8$$

$$12 - 5 = 7$$

$$5 - 12 = 7$$



Subtraction Bordering Tens

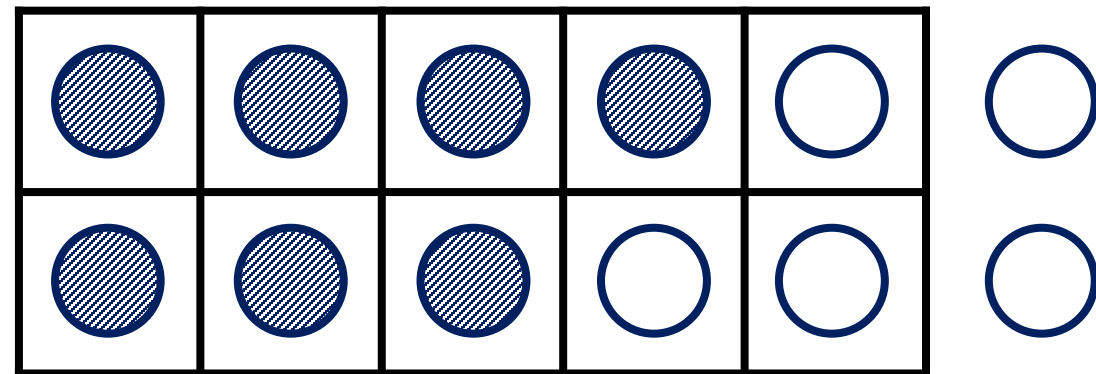
Part 1

Which number sentence is correct?

$12 - 5 = 8$ ✘

$12 - 5 = 7$ ✔

$5 - 12 = 7$ ✘



Subtraction Bordering Tens

Part 2

Answer using three of the digits:

$$\square - \square = \square$$

3

4

5

8

Subtraction Bordering Tens

Part 2

Answer using three of the digits:

Explain the Mistake:

$$\square - \square = \square$$

3

5

4

8

Subtraction Bordering Tens

Part 2

Answer using three of the digits:

Explain the Mistake:

$$\boxed{5} - \boxed{8} = \boxed{3}$$

$$\boxed{4}$$

Subtraction Bordering Tens






Part 2

Answer using three of the digits:

Explain the Mistake:

$$\boxed{5} - \boxed{8} = \boxed{3}$$

$$\boxed{4}$$

Subtraction Bordering Tens

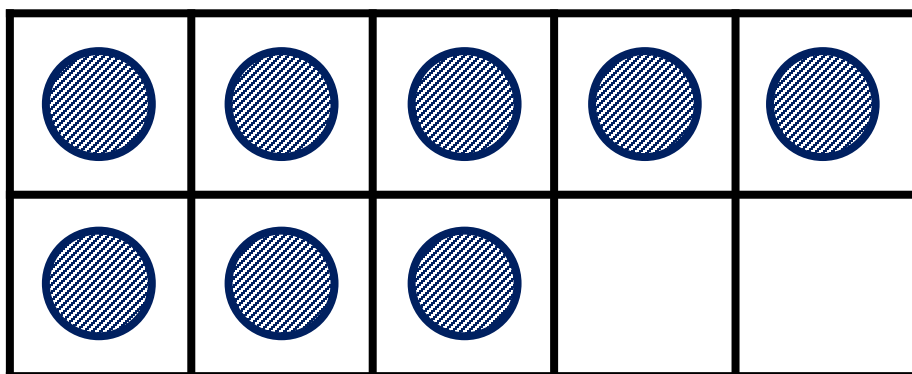
Part 2

Answer using three of the digits:

Correct Answer:

$$\boxed{8} - \boxed{5} = \boxed{3}$$

$$\boxed{4}$$



Subtraction Bordering Tens

Part 2

Answer using three of the digits:

Correct Answer:

$$\boxed{8} - \boxed{5} = \boxed{3}$$

$$\boxed{4}$$

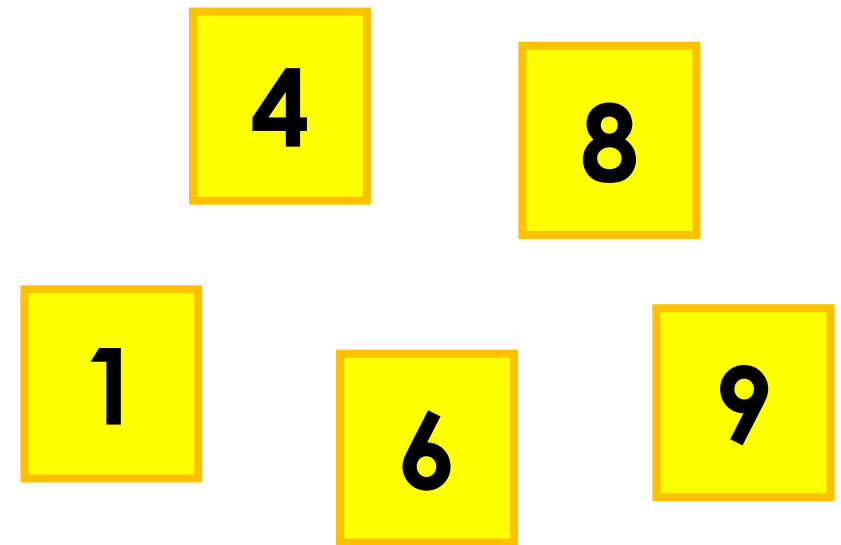
○	○	○	○	○
●	●	●		

Subtraction Bordering Tens

Part 2

Answer using four of the digits:

$$\square\square - \square = \square$$



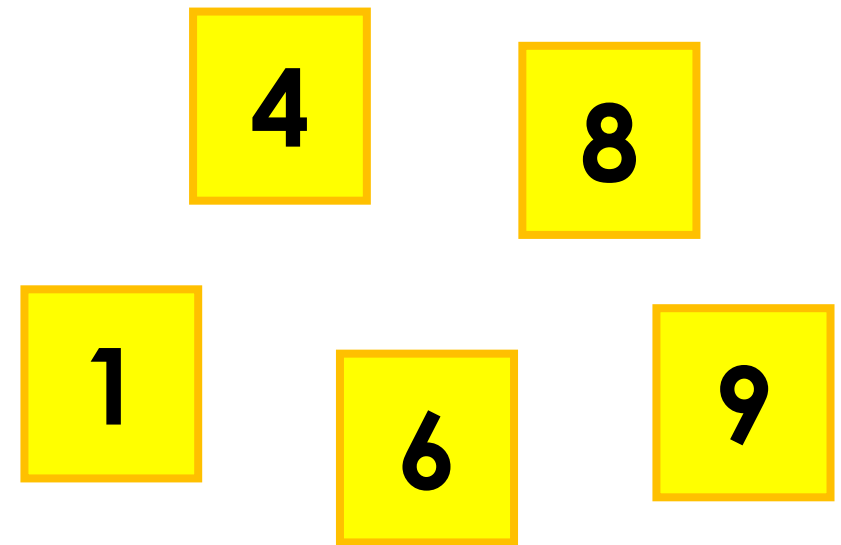
Subtraction Bordering Tens

Part 2

Answer using four of the digits:

Explain the Mistake:

$$\square\square - \square = \square$$



Subtraction Bordering Tens

Part 2

Answer using four of the digits:

Explain the Mistake:

$$\boxed{1} \boxed{4} - \boxed{6} = \boxed{9}$$

$$\boxed{8}$$

Subtraction Bordering Tens

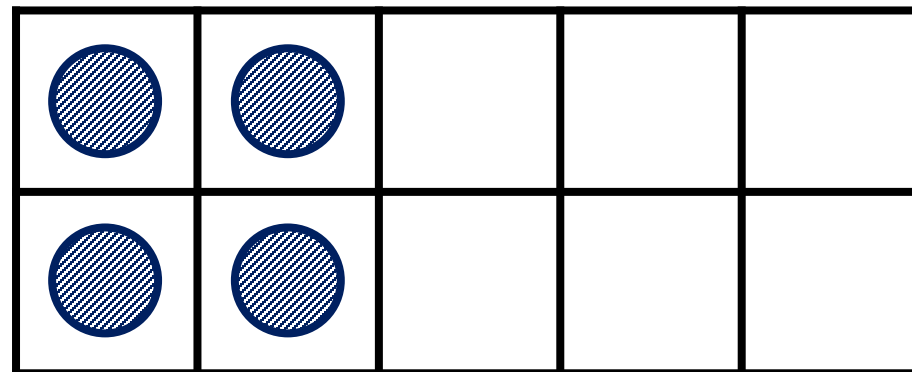
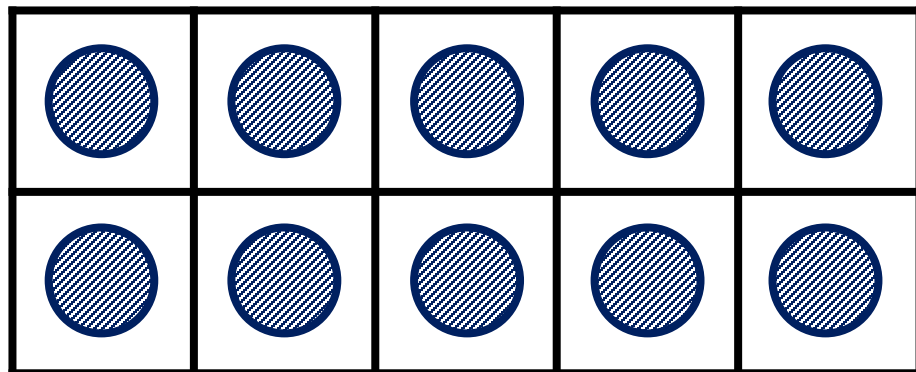
Part 2

Answer using four of the digits:

Explain the Mistake:

8

$$\boxed{1} \boxed{4} - \boxed{6} = \boxed{9}$$



Subtraction Bordering Tens

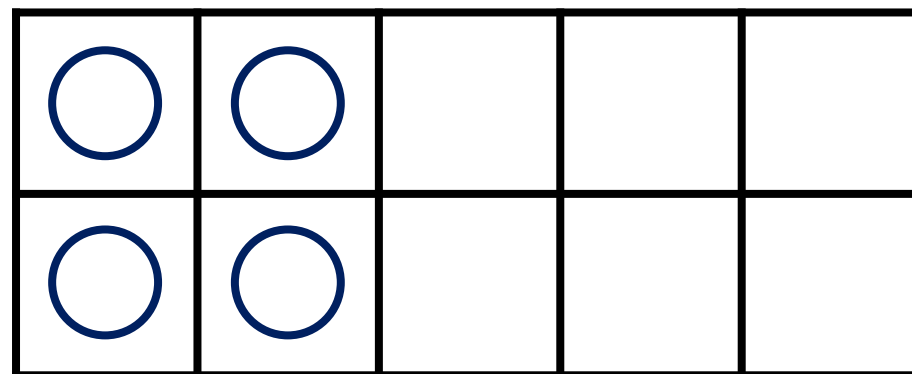
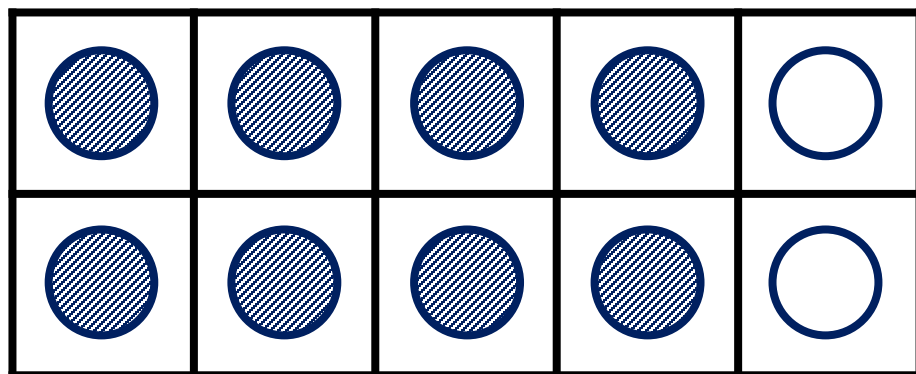
Part 2

Answer using four of the digits:

Explain the Mistake:

8

$$\boxed{1} \boxed{4} - \boxed{6} = \boxed{9}$$



Subtraction Bordering Tens

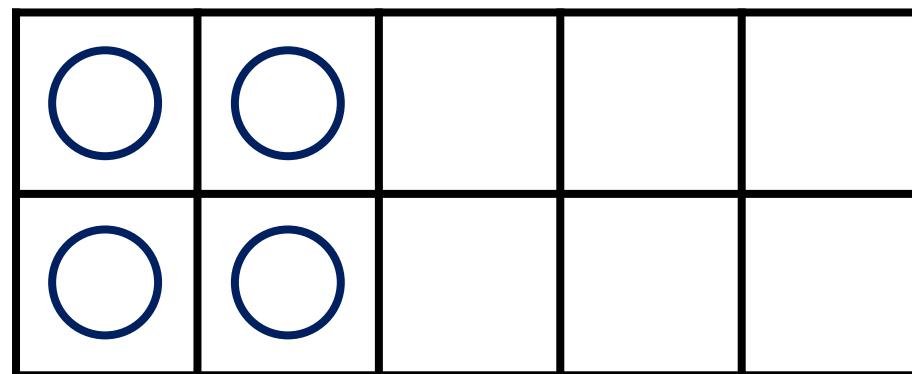
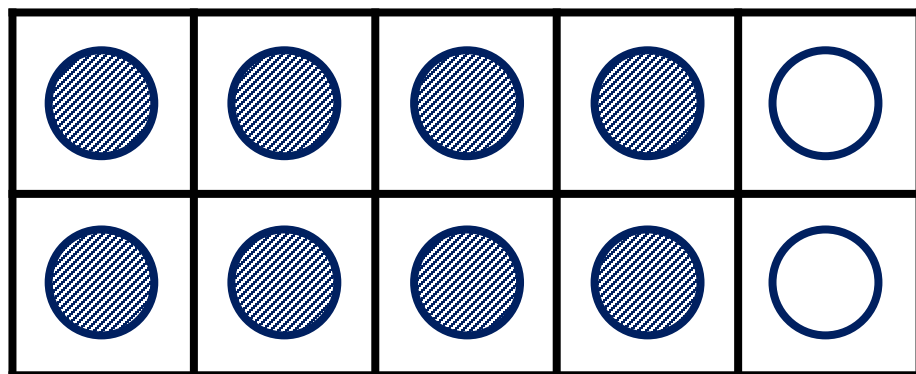
Part 2

Answer using four of the digits:

Correct Answer:

$$\boxed{1} \boxed{4} - \boxed{6} = \boxed{8}$$

$$\boxed{9}$$



Three Numbers

Part 1

I think of **3 numbers**. They are all **different**.
They have a **sum** of **20**.

Three Numbers

Part 1

I think of **3 numbers**. They are all **different**.
They have a **sum** of **20**.

Explain the Mistake:

$$12 + 4 + 3$$

Three Numbers

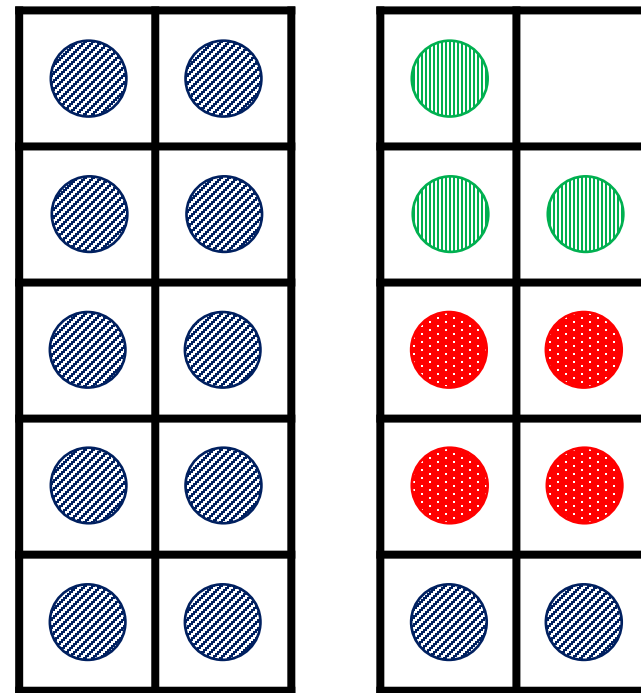
Part 1

I think of **3 numbers**. They are all **different**.

They have a **sum** of **20**.

Explain the Mistake:

$$12 + 4 + 3$$



Three Numbers

Part 1

I think of **3 numbers**. They are all **different**.

They have a **sum** of **20**.

Explain the Mistake:

$$12 + 4 + 4$$

Three Numbers

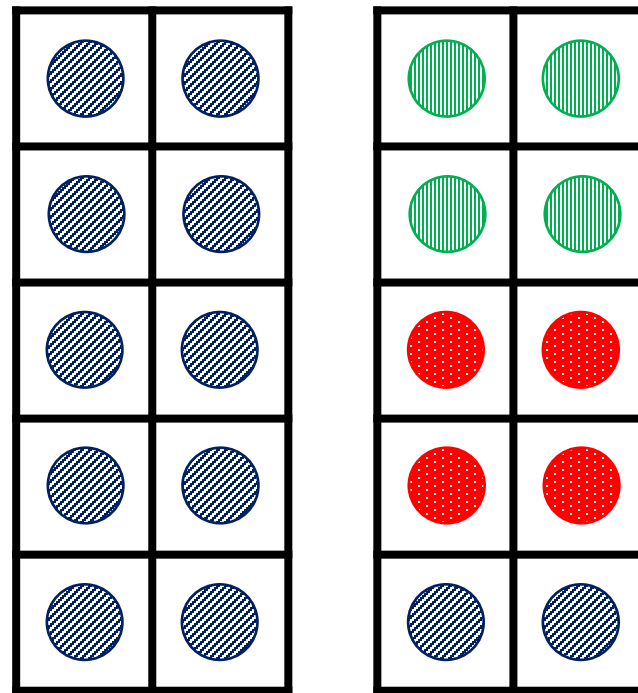
Part 1

I think of **3 numbers**. They are all **different**.

They have a **sum** of **20**.

Explain the Mistake:

$$12 + 4 + 4$$



Three Numbers

Part 2

I think of **3 different numbers**.

They have a **sum of 16**.

Each number is **less than 10**.

Three Numbers

Part 2

I think of **3 different numbers**.

They have a **sum of 16**.

Each number is **less than 10**.

Correct or Incorrect? ✓ or ✗

$$10 + 5 + 1$$

$$8 + 2 + 6$$

$$7 + 6 + 3$$

$$8 + 4 + 4$$

Three Numbers

Part 2

I think of **3 different numbers**.

They have a **sum of 16**.

Each number is **less than 10**.

Correct or Incorrect? ✓ or ✗

✗

$$10 + 5 + 1$$

✓

$$8 + 2 + 6$$

✓

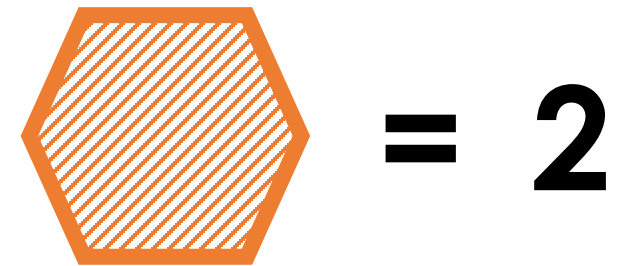
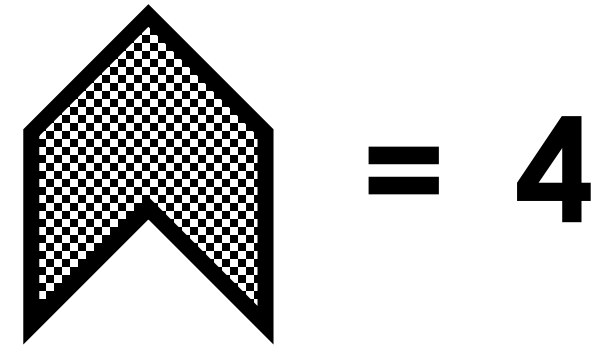
$$7 + 6 + 3$$

✗

$$8 + 4 + 4$$

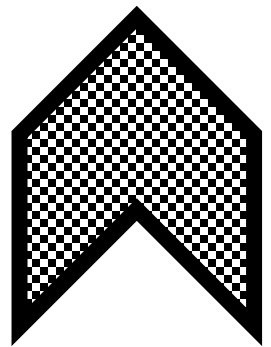
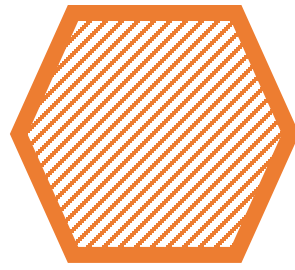
Shapes for Numbers

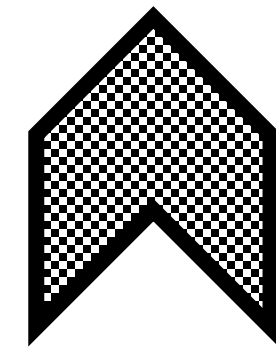
Part 1

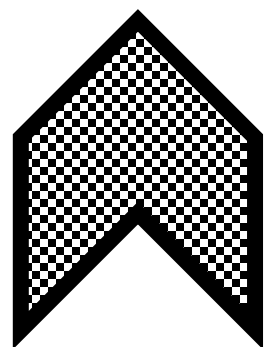
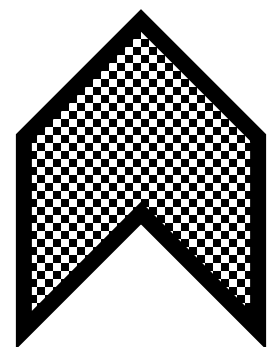


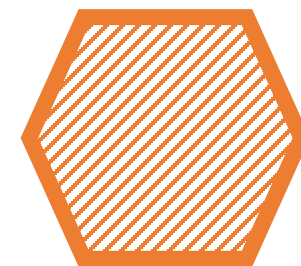
Shapes for Numbers

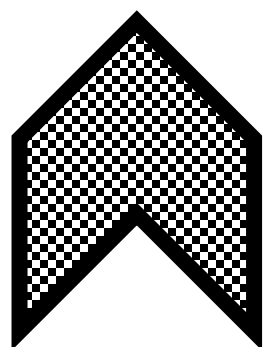
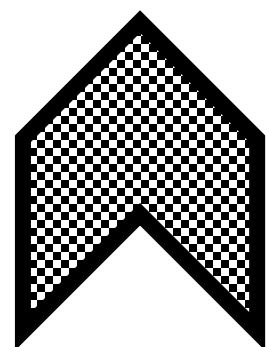
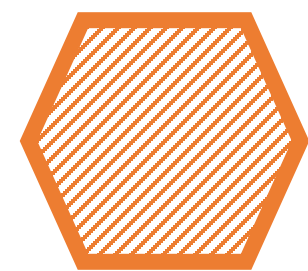
Part 1

 $+$  $=$

 $= 4$

 $+$  $=$

 $= 2$

 $+$  $+$  $=$

Shapes for Numbers

Part 1

$$\text{Checkered Arrow} + \text{Orange Hexagon} = 6$$

$$\text{Checkered Arrow} = 4$$

$$\text{Checkered Arrow} + \text{Checkered Arrow} =$$

$$\text{Orange Hexagon} = 2$$

$$\text{Checkered Arrow} + \text{Checkered Arrow} + \text{Orange Hexagon} =$$

Shapes for Numbers

Part 1

$$\text{Checkered Arrowhead} + \text{Orange Hexagon} = 6$$

$$\text{Checkered Arrowhead} = 4$$

$$\text{Checkered Arrowhead} + \text{Checkered Arrowhead} = 8$$

$$\text{Orange Hexagon} = 2$$

$$\text{Checkered Arrowhead} + \text{Checkered Arrowhead} + \text{Orange Hexagon} =$$

Shapes for Numbers

Part 1

$$\text{Checkered Arrowhead} + \text{Orange Hexagon} = 6$$

$$\text{Checkered Arrowhead} = 4$$

$$\text{Checkered Arrowhead} + \text{Checkered Arrowhead} = 8$$

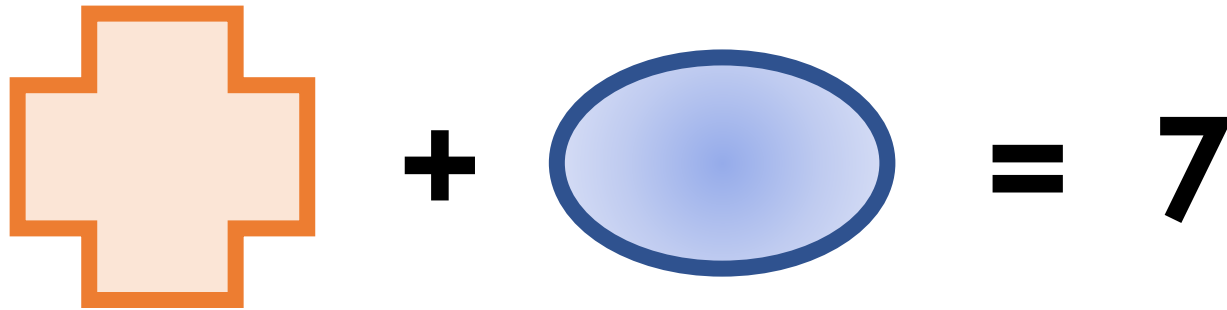
$$\text{Orange Hexagon} = 2$$

$$\text{Checkered Arrowhead} + \text{Checkered Arrowhead} + \text{Orange Hexagon} = 10$$

Shapes for Numbers

Part 2

Each shape stands for a number.


$$\text{Cross} + \text{Oval} = 7$$

Shapes for Numbers

Part 2

Each shape stands for a number.


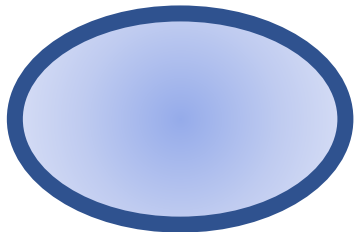
$$\begin{array}{c}
 \text{Cross} \\
 + \text{Oval} \\
 = 7
 \end{array}$$

$$\begin{array}{c}
 \text{Cross} \\
 + \text{Cross} \\
 = 10
 \end{array}$$

Shapes for Numbers

Part 2

Each shape stands for a number.


 $+$

 $= 7$


 $+$

 $= 10$

Shapes for Numbers

Part 2

Each shape stands for a number.


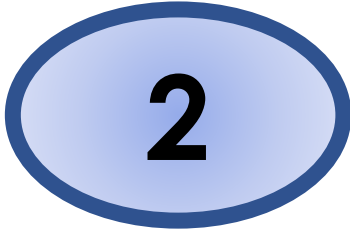
$$\begin{array}{c} \text{+} \\ \text{5} \end{array} + \text{O} = 7$$

$$\begin{array}{c} \text{+} \\ \text{5} \end{array} + \begin{array}{c} \text{+} \\ \text{5} \end{array} = 10$$

Shapes for Numbers

Part 2

Each shape stands for a number.


 $+$

 $= 7$

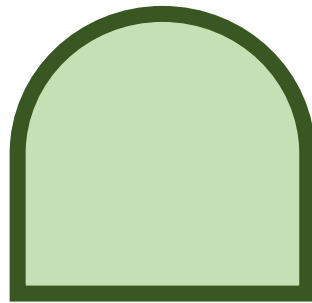
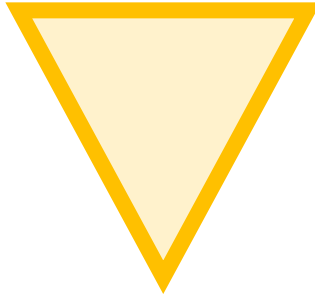

 $+$

 $= 10$

Shapes for Numbers

Part 2

Each shape stands for a number.

 $+$  $=$ **8**

Shapes for Numbers

Part 2

Each shape stands for a number.

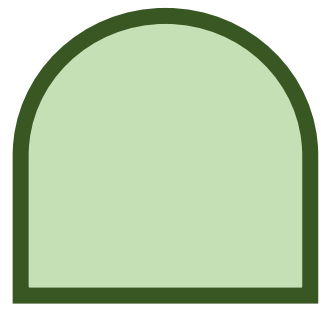
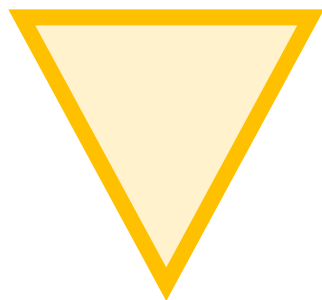
$$\begin{array}{c}
 \text{Green semi-circle} \\
 + \\
 \text{Yellow inverted triangle} \\
 = 8
 \end{array}$$

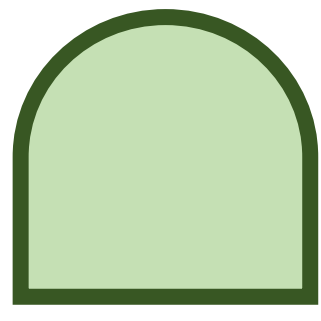
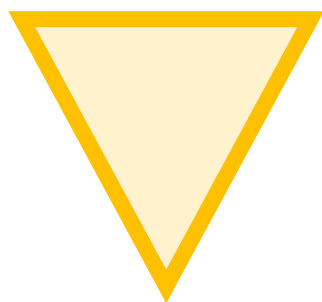

$$\begin{array}{c}
 \text{Green semi-circle} \\
 + \\
 \text{Yellow inverted triangle} \\
 + \\
 \text{Yellow inverted triangle} \\
 = 10
 \end{array}$$

Shapes for Numbers

Part 2

Each shape stands for a number.

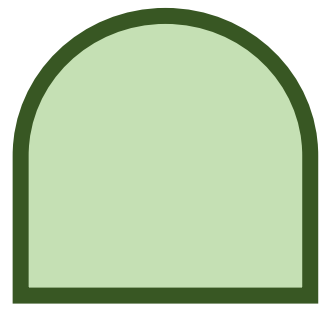


 $+$

 $= 8$

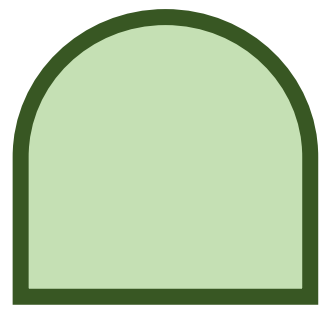



 $+$

 $+$

 $= 10$

Shapes for Numbers

Part 2

Each shape stands for a number.


 $+$

 $= 8$


 $+$

 $+$

 $= 10$

Shapes for Numbers

Part 2

Each shape stands for a number.

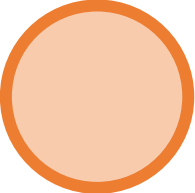

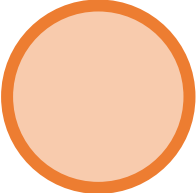
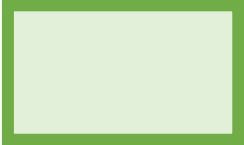


$$\begin{array}{c} \text{6} \end{array} + \begin{array}{c} \text{2} \end{array} = 8$$

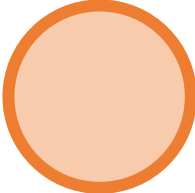
$$\begin{array}{c} \text{6} \end{array} + \begin{array}{c} \text{2} \end{array} + \begin{array}{c} \text{2} \end{array} = 10$$


Shapes for Numbers

Part 3

Each shape stands for a number.

			16
			28
11	20	13	

 =

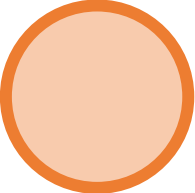

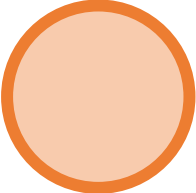
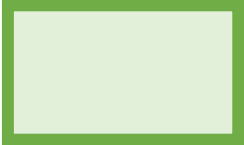


 =

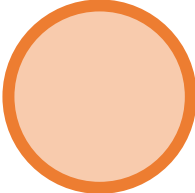
 =


Shapes for Numbers

Part 3

Each shape stands for a number.

			16
			28
11	20	13	

 =

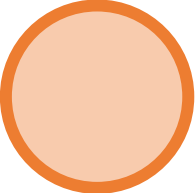

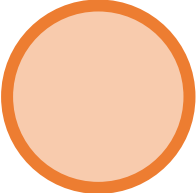
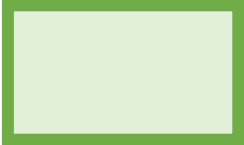


 = 10

 =

Shapes for Numbers

Part 3

Each shape stands for a number.

			16
			28
11	20	13	

$$\text{orange circle} =$$

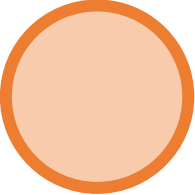

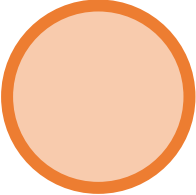
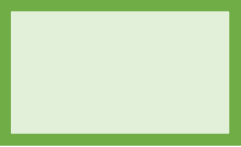


$$\text{blue star} = 10$$

$$\text{green rectangle} = 8$$

Shapes for Numbers

Part 3

Each shape stands for a number.

			16
			28
11	20	13	

$$\text{Orange circle} = 3$$

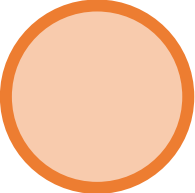

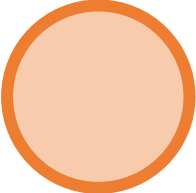
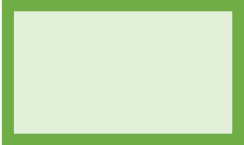


$$\text{Blue star} = 10$$

$$\text{Green rectangle} = 8$$

Shapes for Numbers

Part 3

Each shape stands for a number.

			16
			28
11	20	13	

$$\text{orange circle} = 3$$

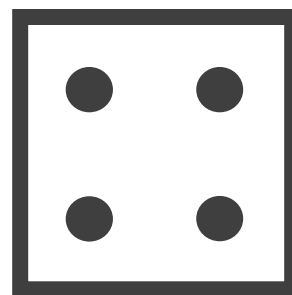
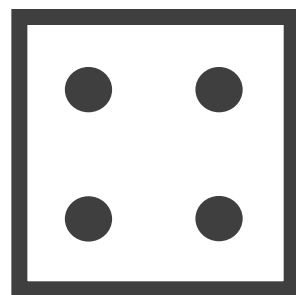
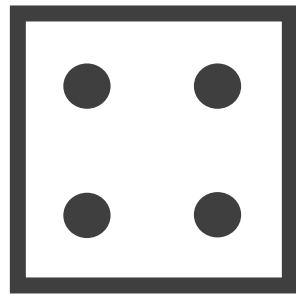
$$\text{blue star} = 10$$

$$\text{green rectangle} = 8$$

Dice Patterns

Part 1

This is **3** lots of **4**.

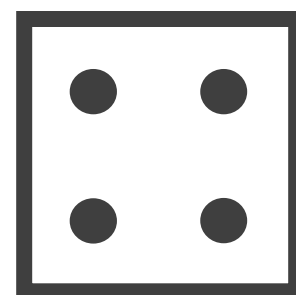
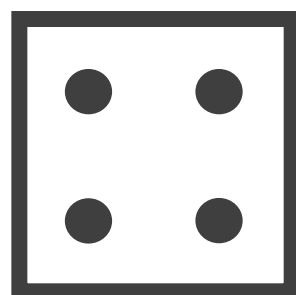
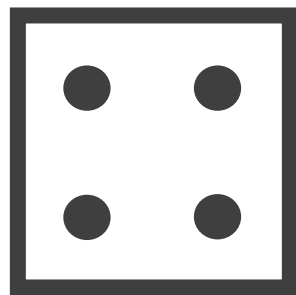


Dice Patterns

Part 1

This is **3** lots of **4**.

There are **12** dots in total.

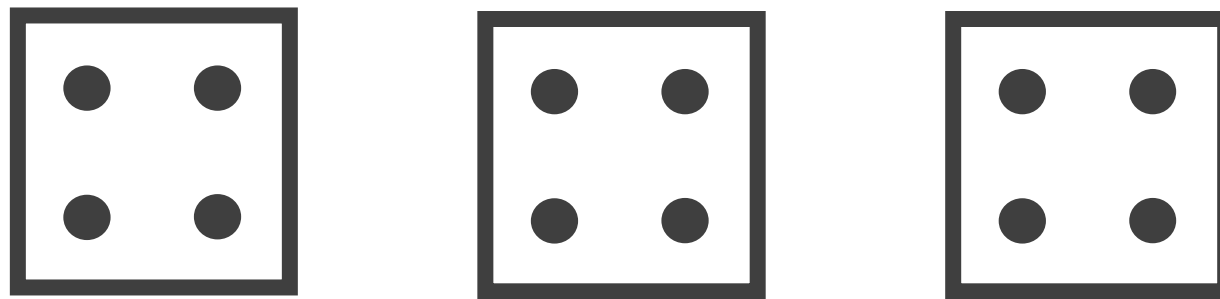


Dice Patterns

Part 1

This is **3** lots of **4**.

There are **12** dots in total.



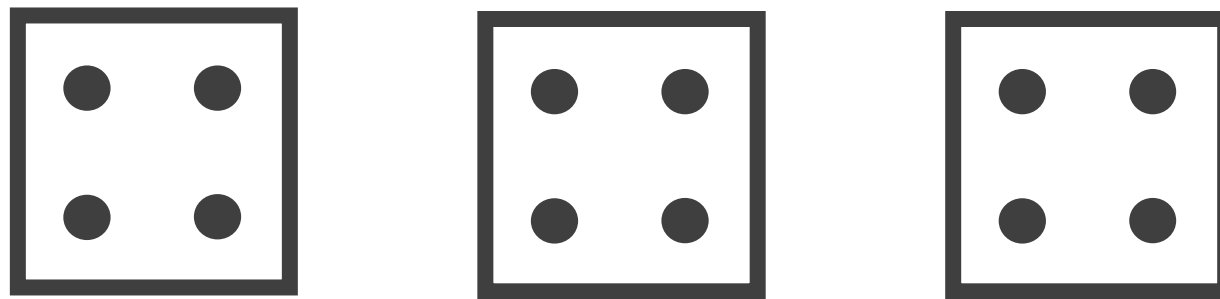
$$4 + 4 + 4 = 12$$

Dice Patterns

Part 1

This is **3** lots of **4**.

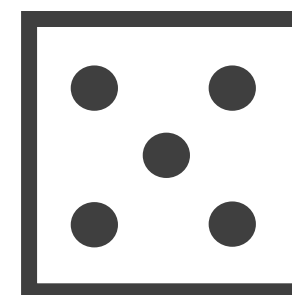
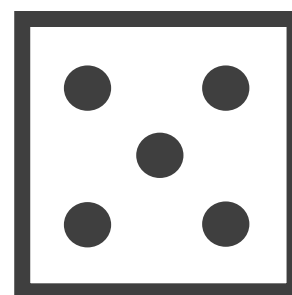
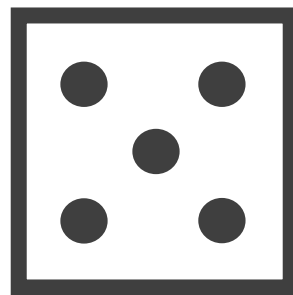
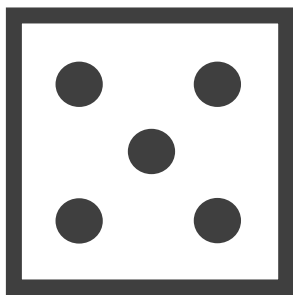
There are **12** dots in total.



$$4 + 4 + 4 = 12$$

$$3 \times 4 = 12$$

This is **4** lots of **5**.

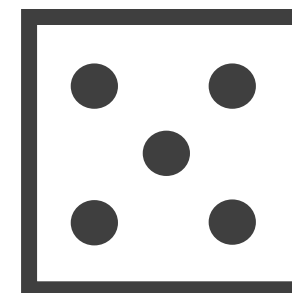
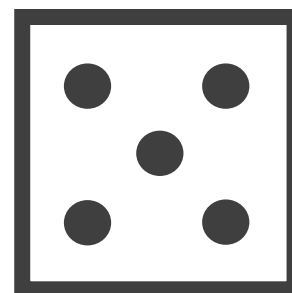
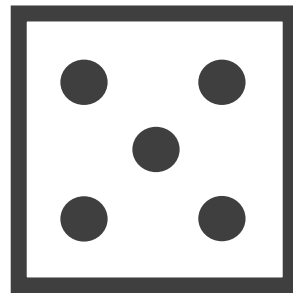
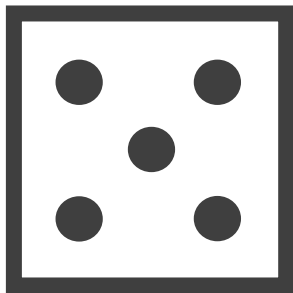


Dice Patterns

Part 1

This is **4** lots of **5**.

There are **20** dots in total.

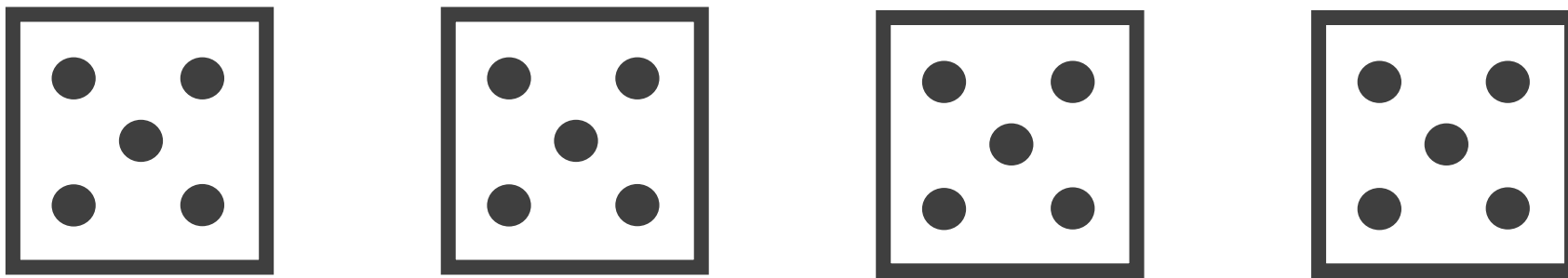


Dice Patterns

Part 1

This is **4** lots of **5**.

There are **20** dots in total.



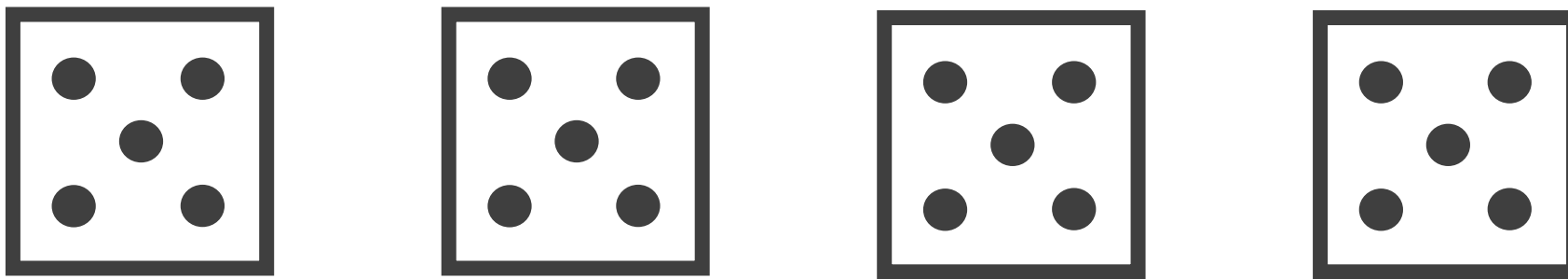
$$5 + 5 + 5 + 5 = 20$$

Dice Patterns

Part 1

This is **4** lots of **5**.

There are **20** dots in total.



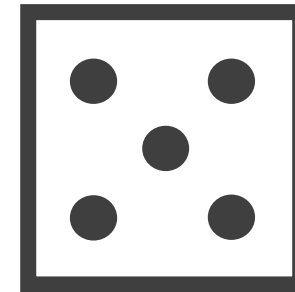
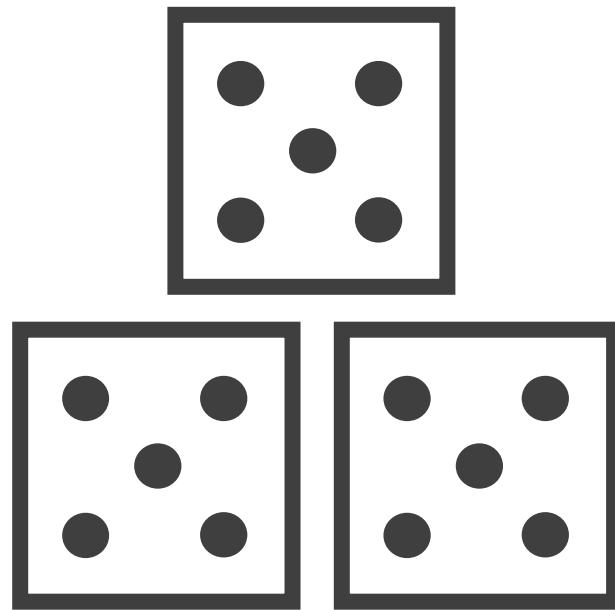
$$5 + 5 + 5 + 5 = 20$$

$$4 \times 5 = 20$$

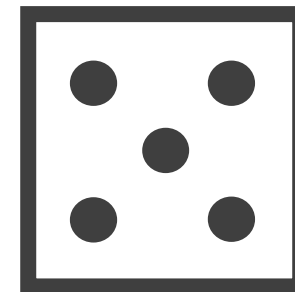
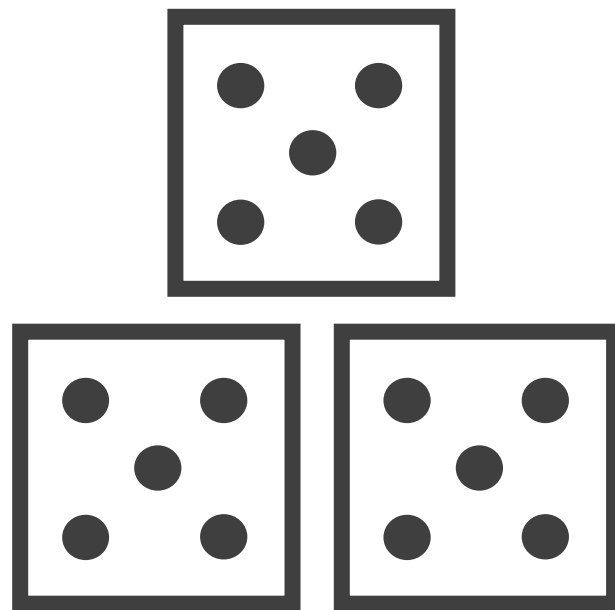
Dice Patterns

Part 2

Which Number Sentences?



Which Number Sentences?



$$5 + 5 + 5 + 5$$

$$4 \times 5$$

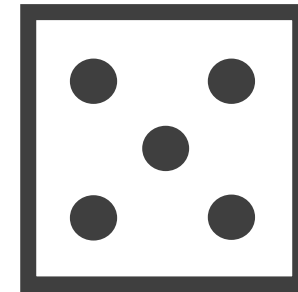
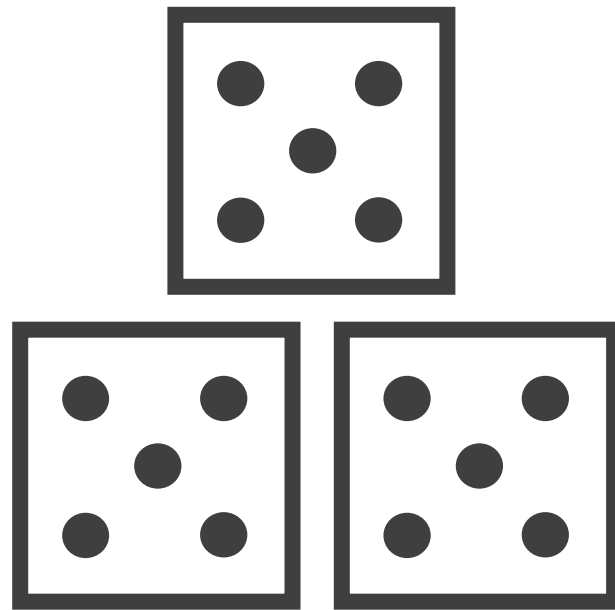
$$15 + 5$$

$$3 \times 5$$

Dice Patterns

Part 2

Which Number Sentences?



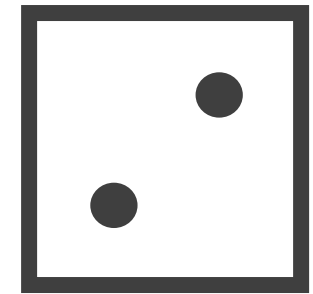
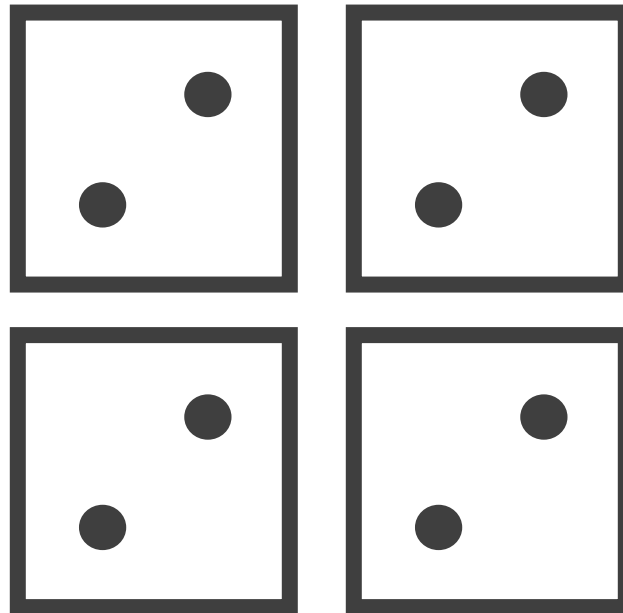
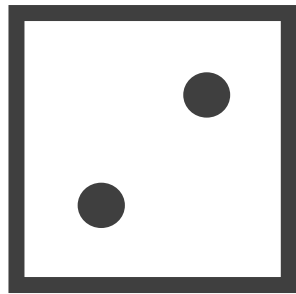
$$5 + 5 + 5 + 5$$

$$15 + 5$$

$$4 \times 5$$

$$3 \times 5$$

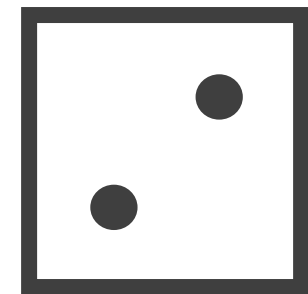
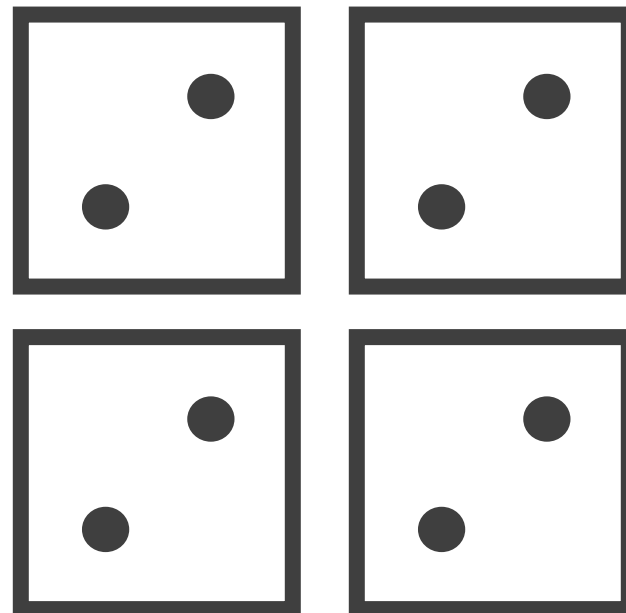
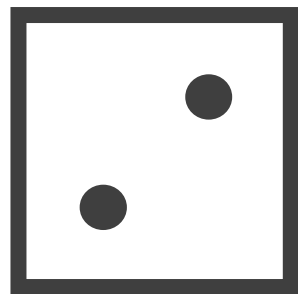
Which Number Sentences?



Dice Patterns

Part 2

Which Number Sentences?



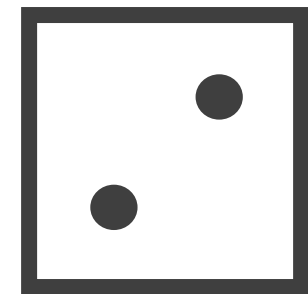
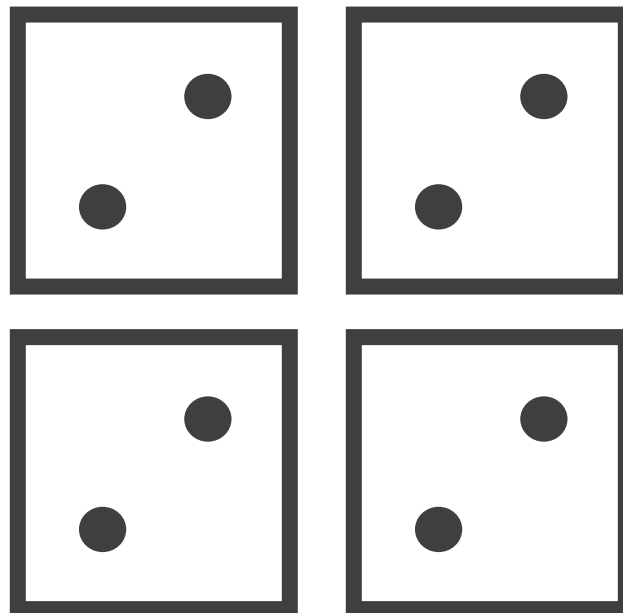
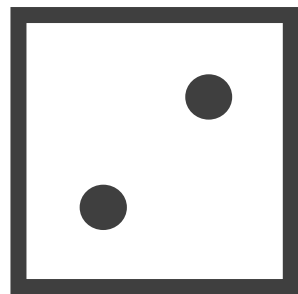
$$2 + 2 + 2 + 2 + 2 + 2$$

$$6 \times 2$$

$$2 + 8 + 2$$

$$5 \times 2$$

Which Number Sentences?



$$2 + 2 + 2 + 2 + 2 + 2$$

$$6 \times 2$$

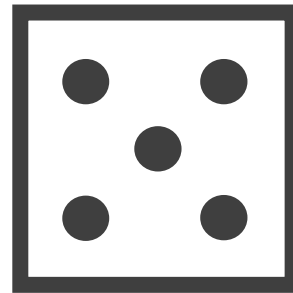
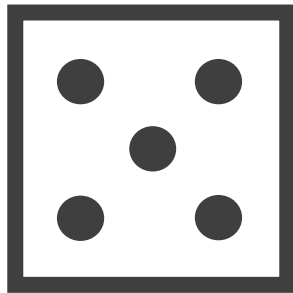
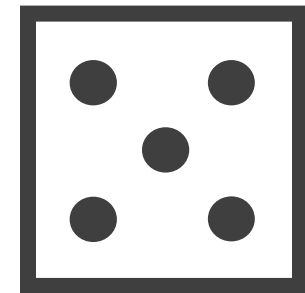
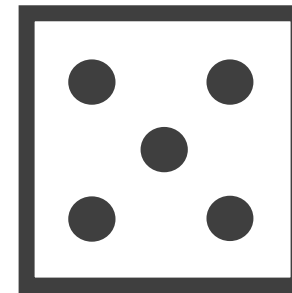
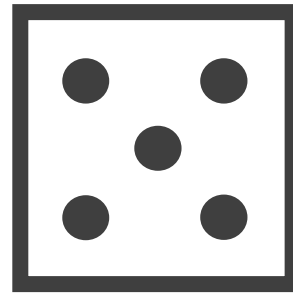
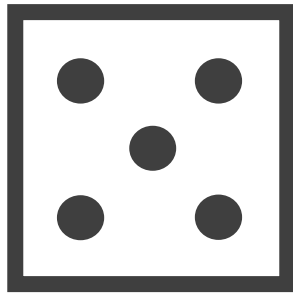
$$2 + 8 + 2$$

$$5 \times 2$$

Dice Patterns

Part 2

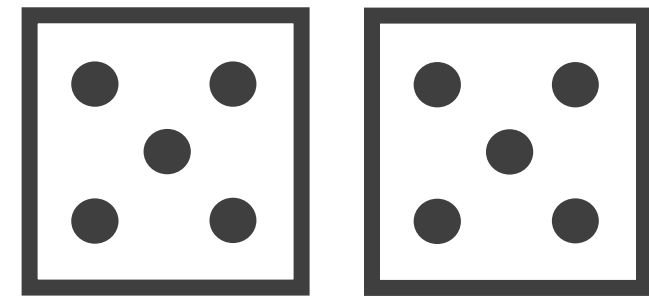
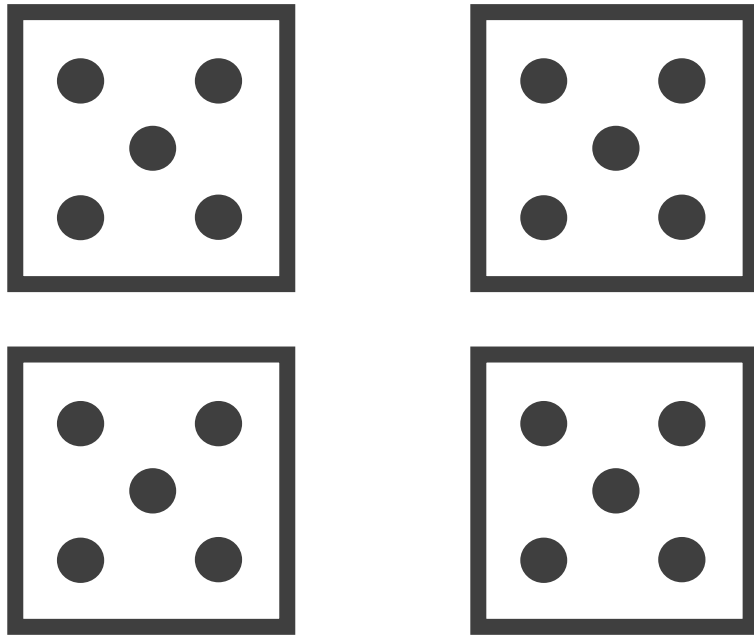
Which Number Sentences?



Dice Patterns

Part 2

Which Number Sentences?



$$5 + 5 + 5 + 5 + 5 + 5$$

$$6 \times 5$$

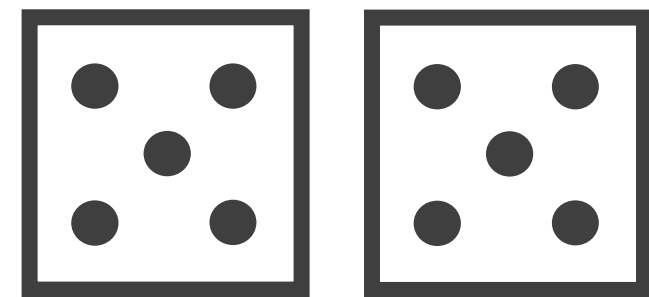
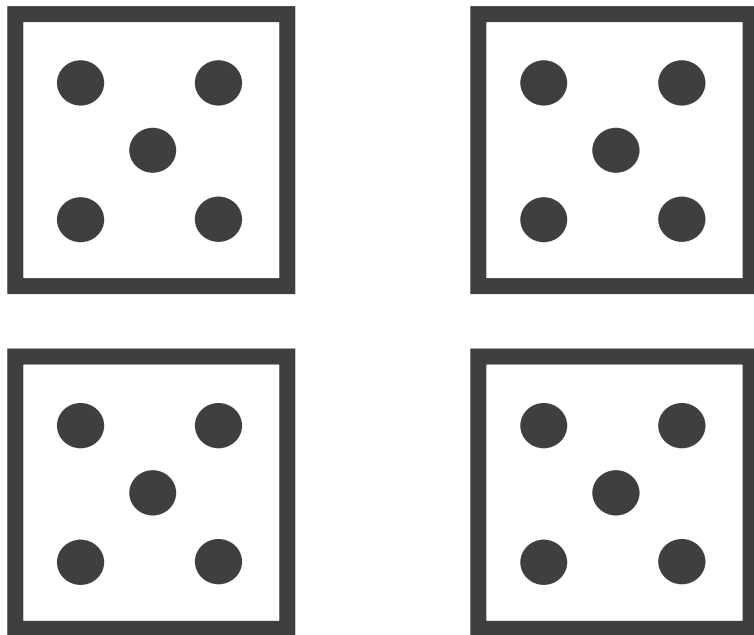
$$20 + 10$$

$$3 \times 10$$

Dice Patterns

Part 2

Which Number Sentences?



$$5 + 5 + 5 + 5 + 5 + 5$$

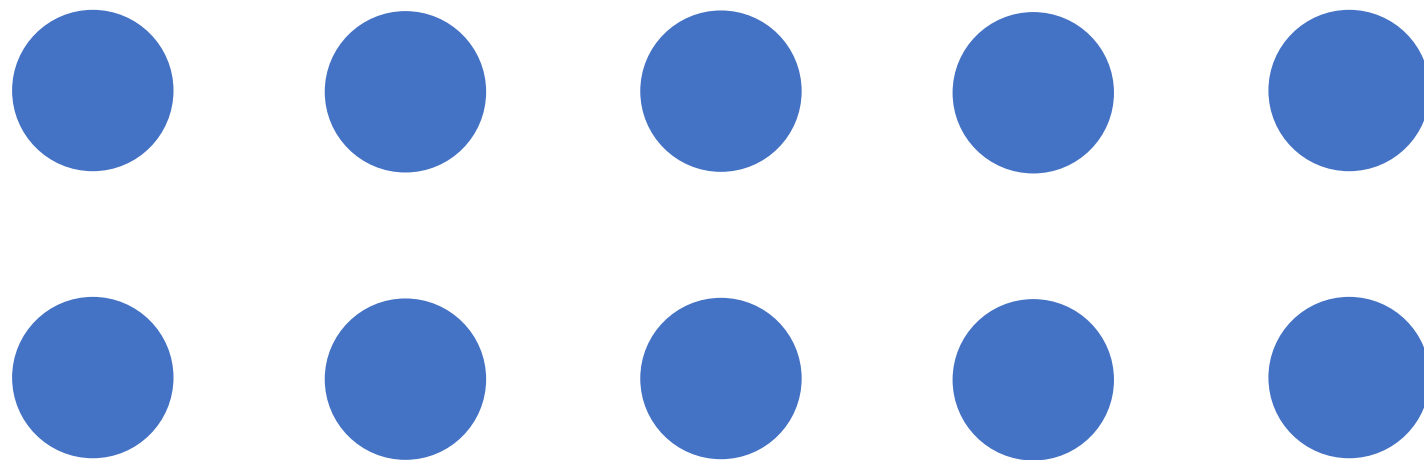
$$6 \times 5$$

$$20 + 10$$

$$3 \times 10$$

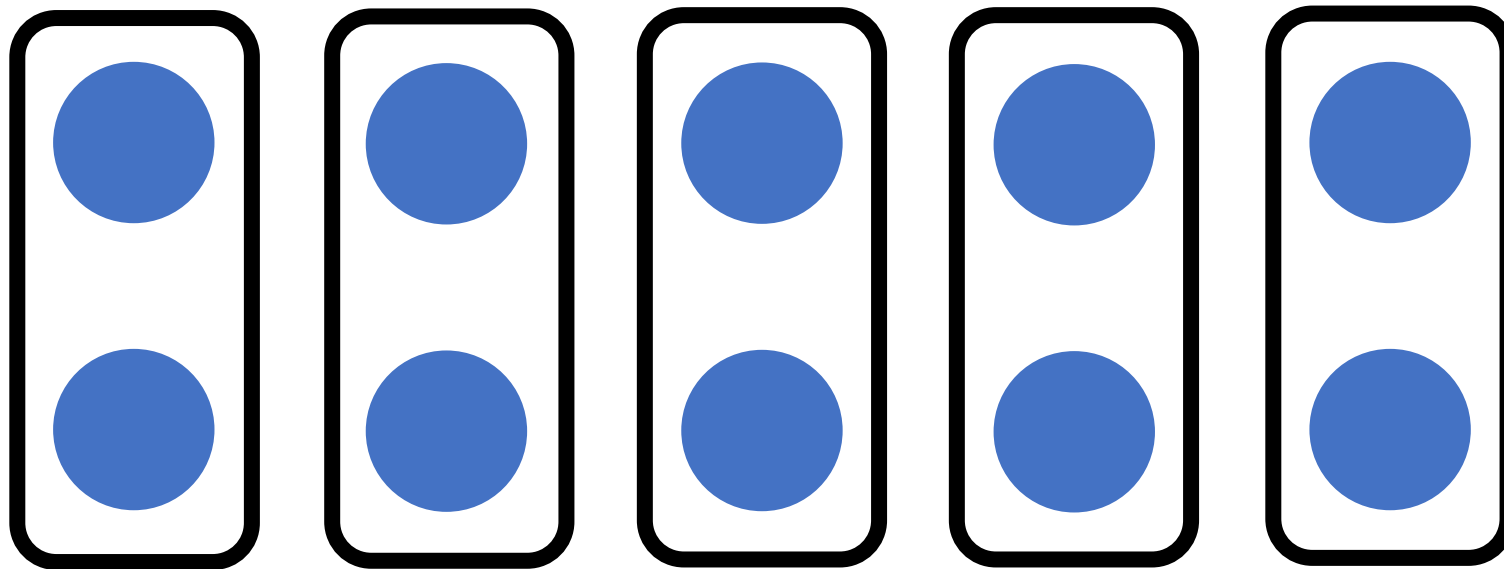
Different Arrays

Part 1



Different Arrays

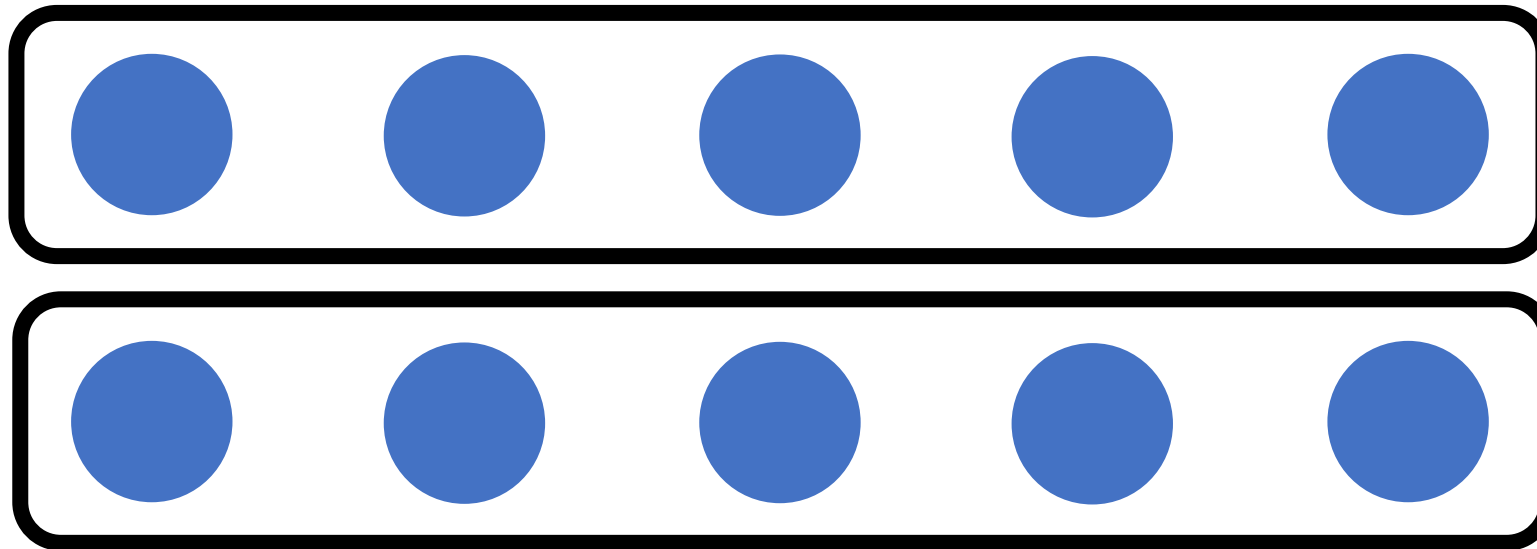
Part 1



$$5 \times 2$$

Different Arrays

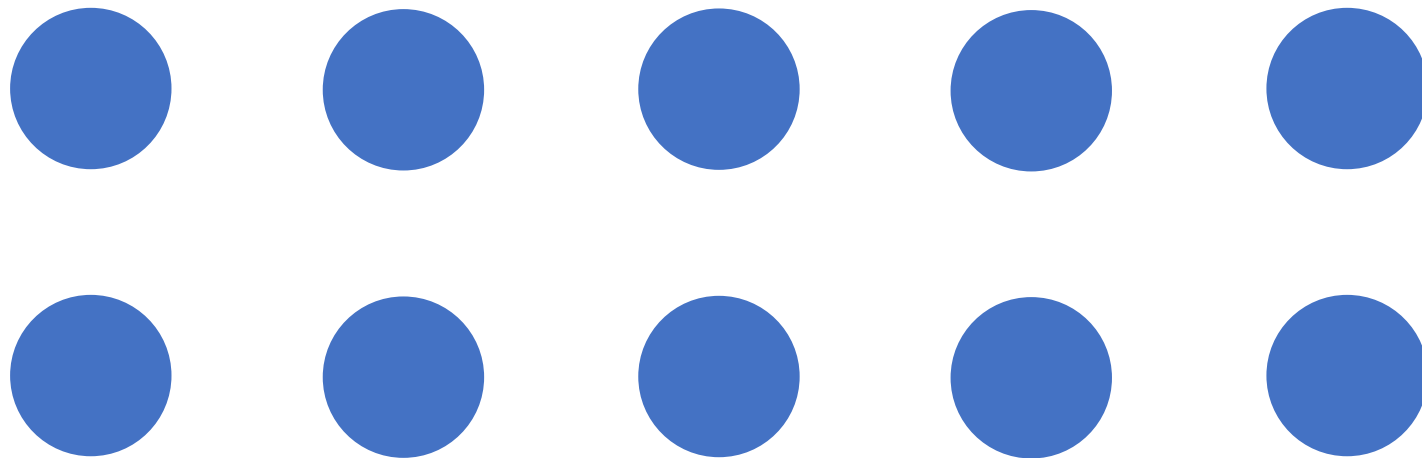
Part 1



5×2 or 2×5

Different Arrays

Part 1



5×2 or 2×5

10 dots in total

Different Arrays

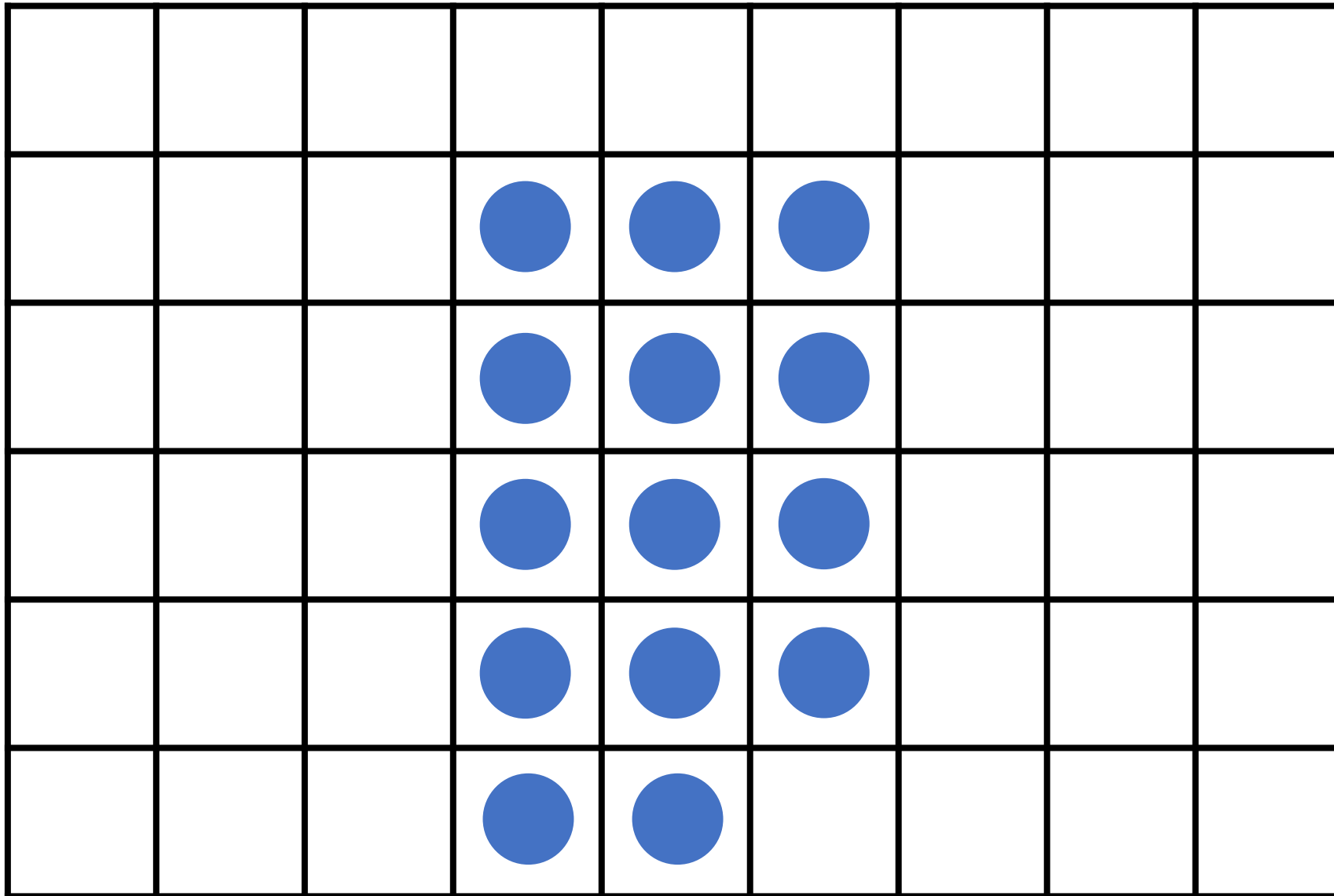
Part 2

Make an array using **14** counters.

Different Arrays

Make an array using **14** counters.

Explain the mistake:

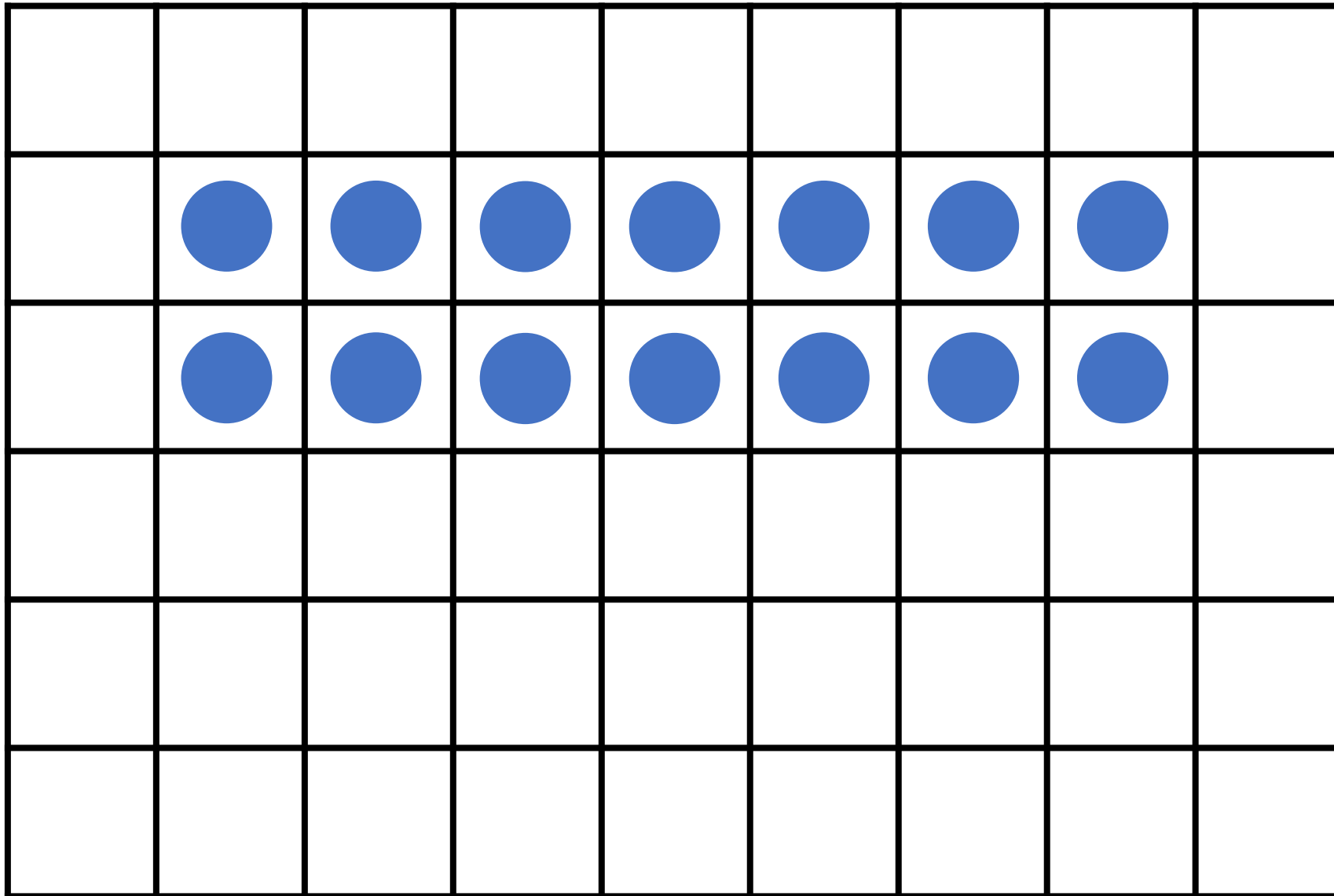


Different Arrays

Part 2

Make an array using **14** counters.

Example answer:

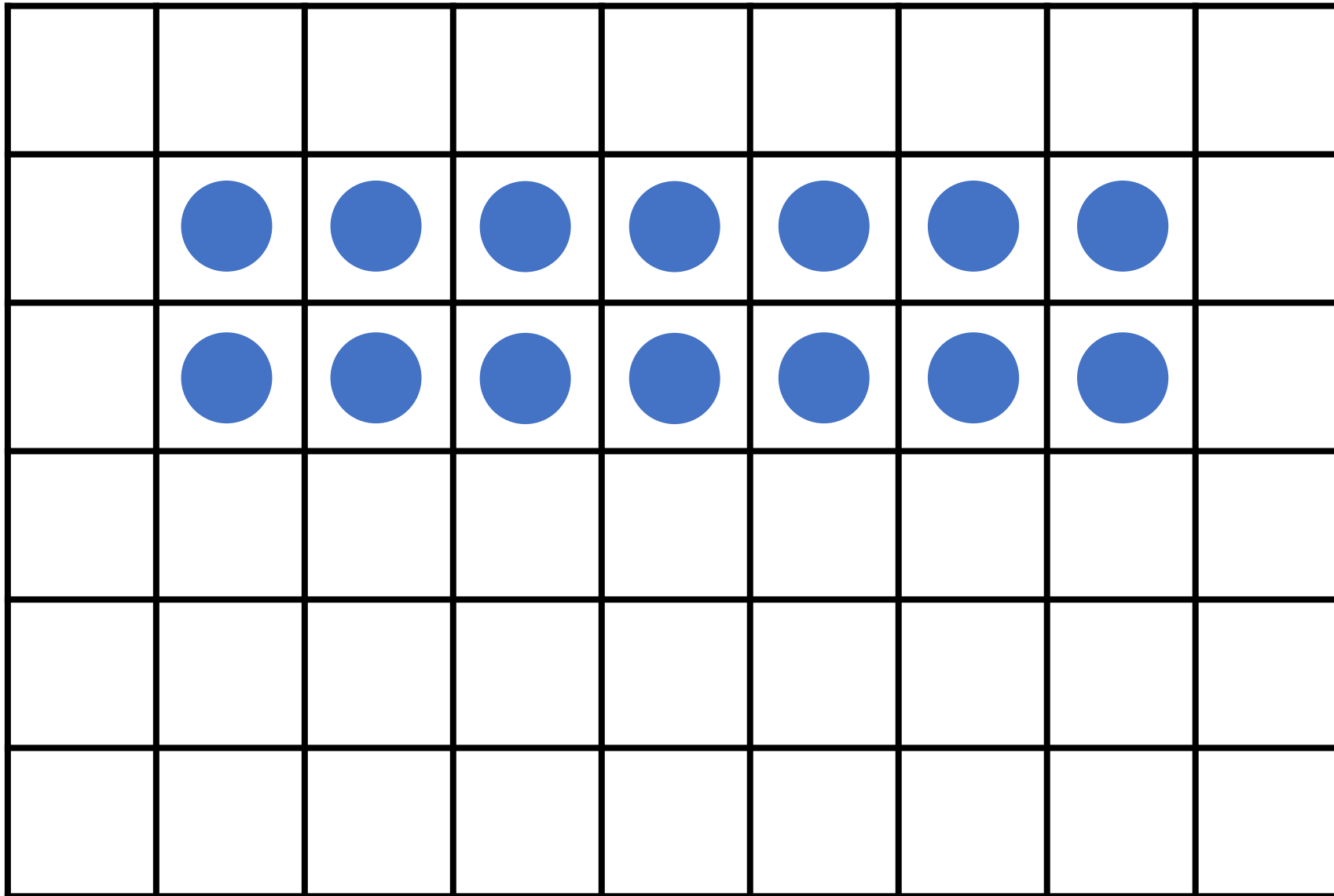


Different Arrays

Part 2

Make an array using **14** counters.

Example answer:



× number sentences:

$$7 \times 2$$

or

$$2 \times 7$$

Different Arrays

Part 3

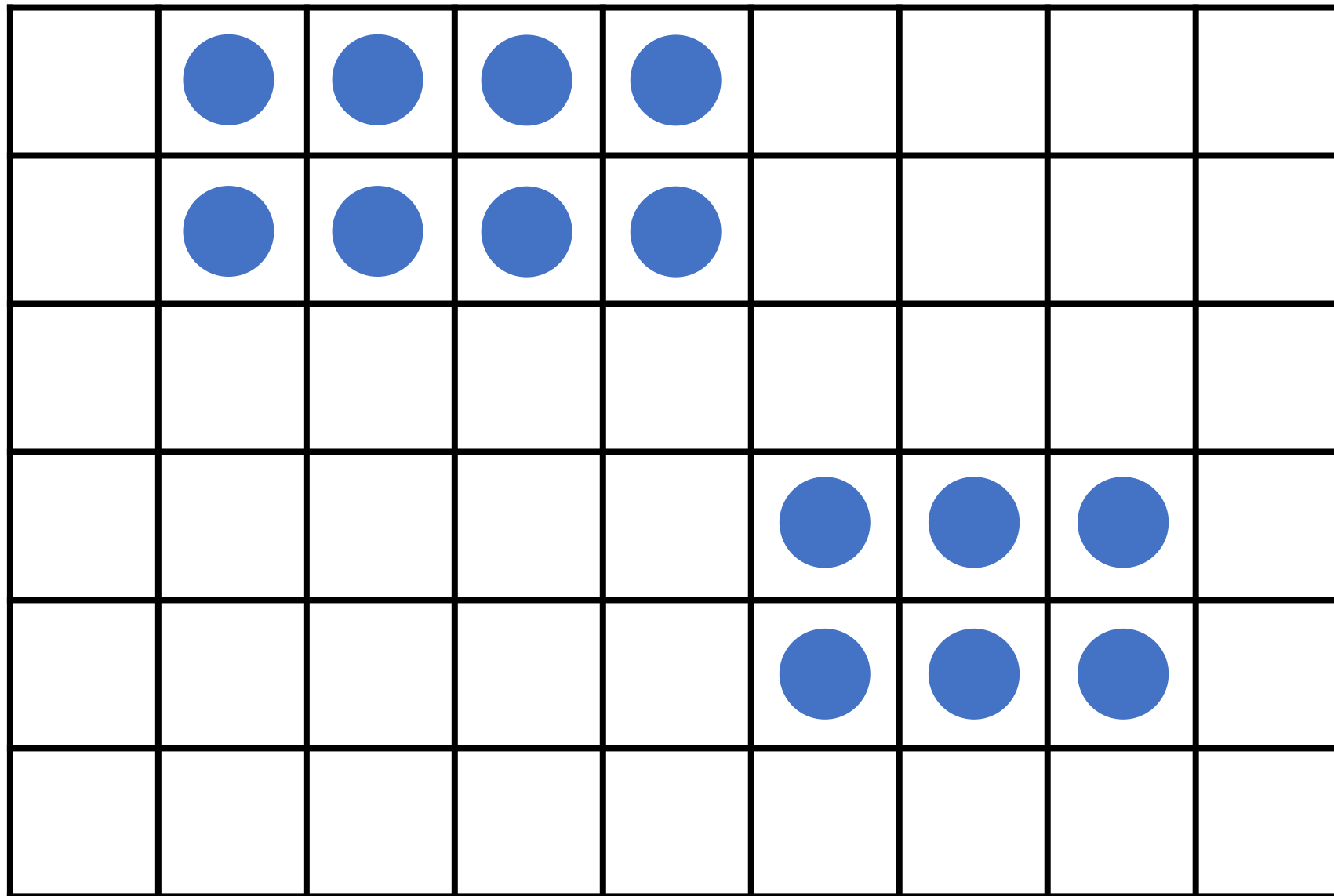
Make **two** arrays using **14** counters in total.

Different Arrays

Part 3

Make **two** arrays using **14** counters in total.

Example answer:

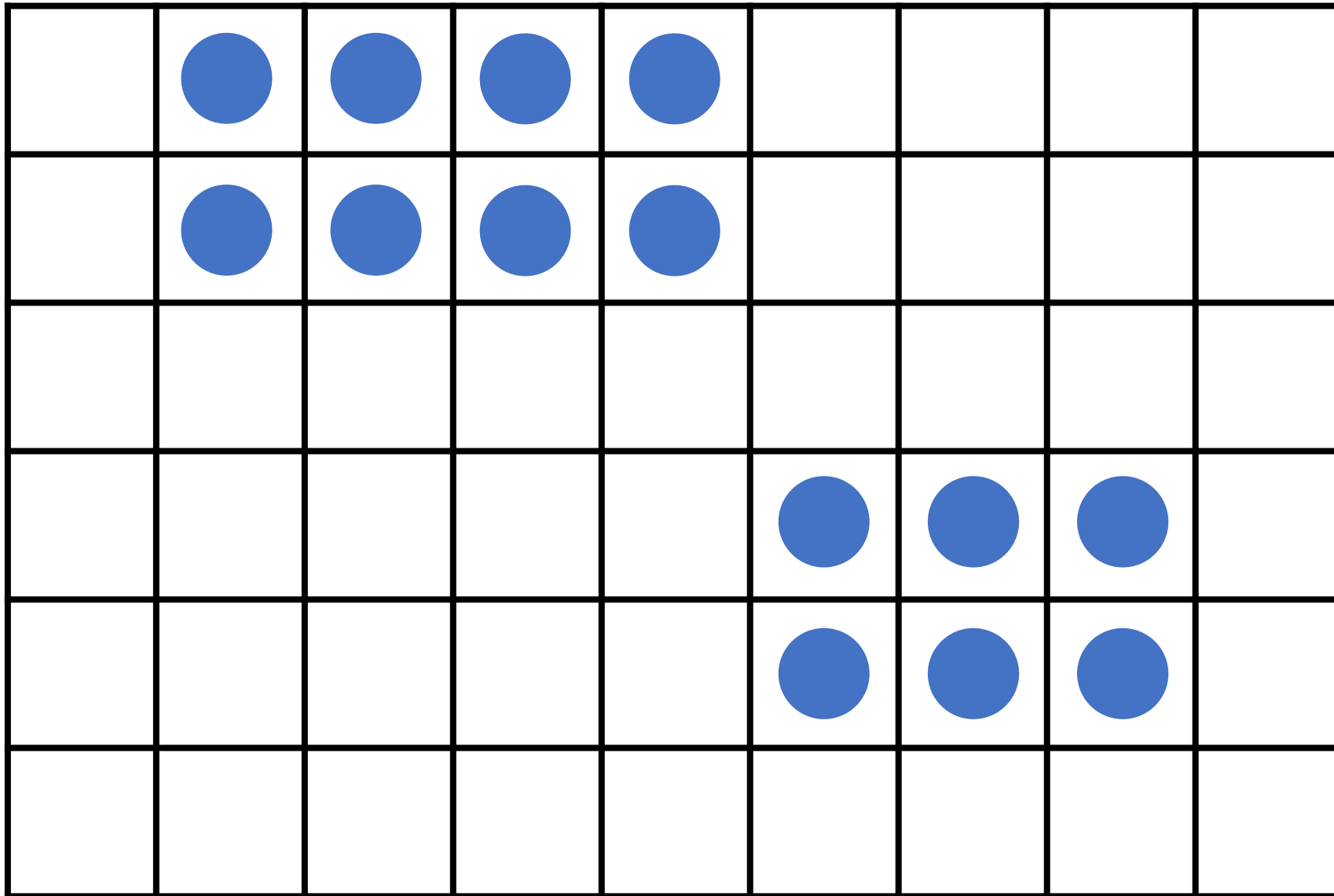


Different Arrays

Part 3

Make **two** arrays using **14** counters in total.

Example answer:



$$4 \times 2$$

and

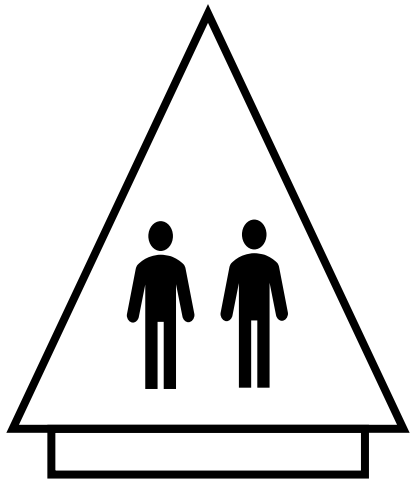
$$3 \times 2$$

Camping Trip

Part 1

14 people camping.

They use tents that fit **2** people.

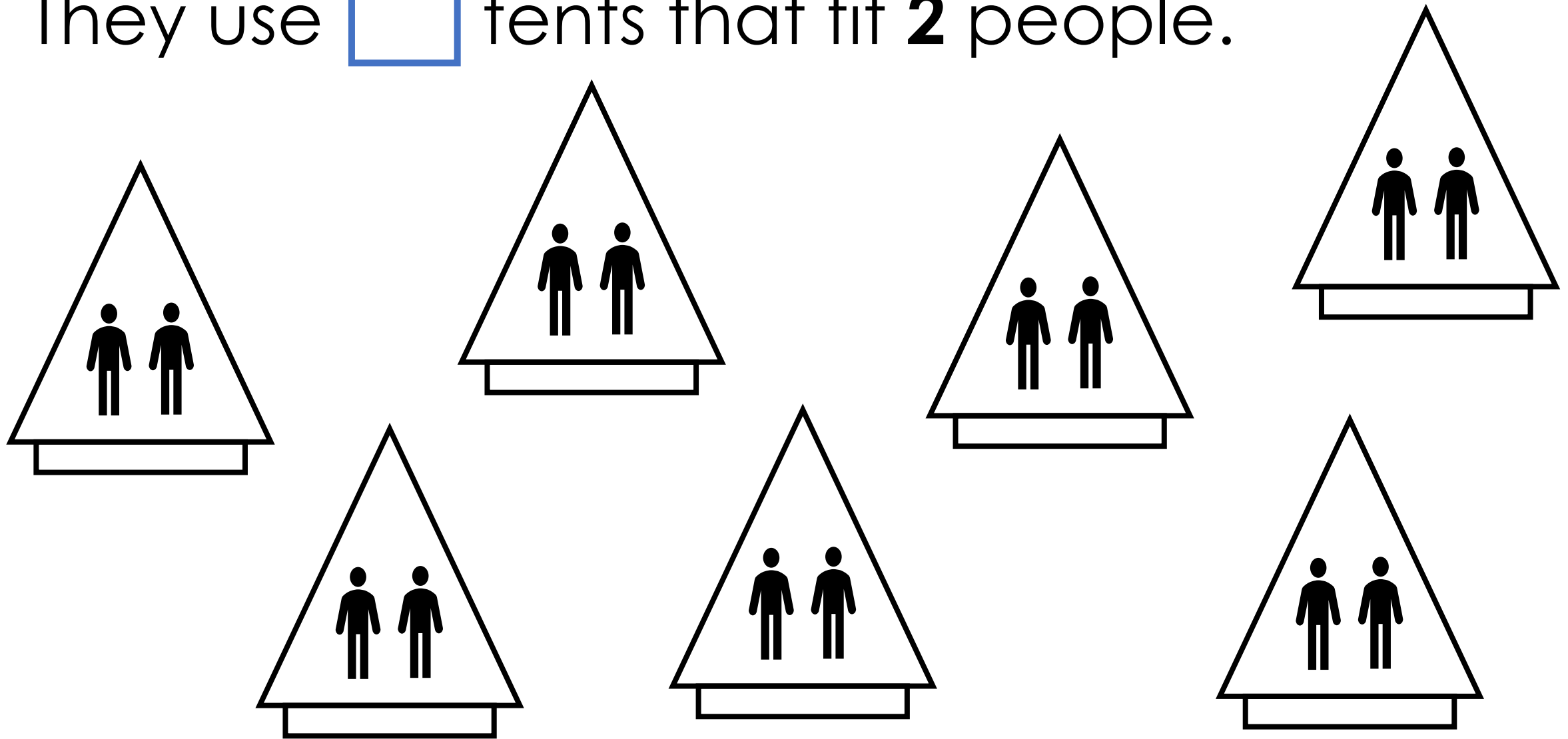


Camping Trip

Part 1

14 people camping.

They use tents that fit **2** people.

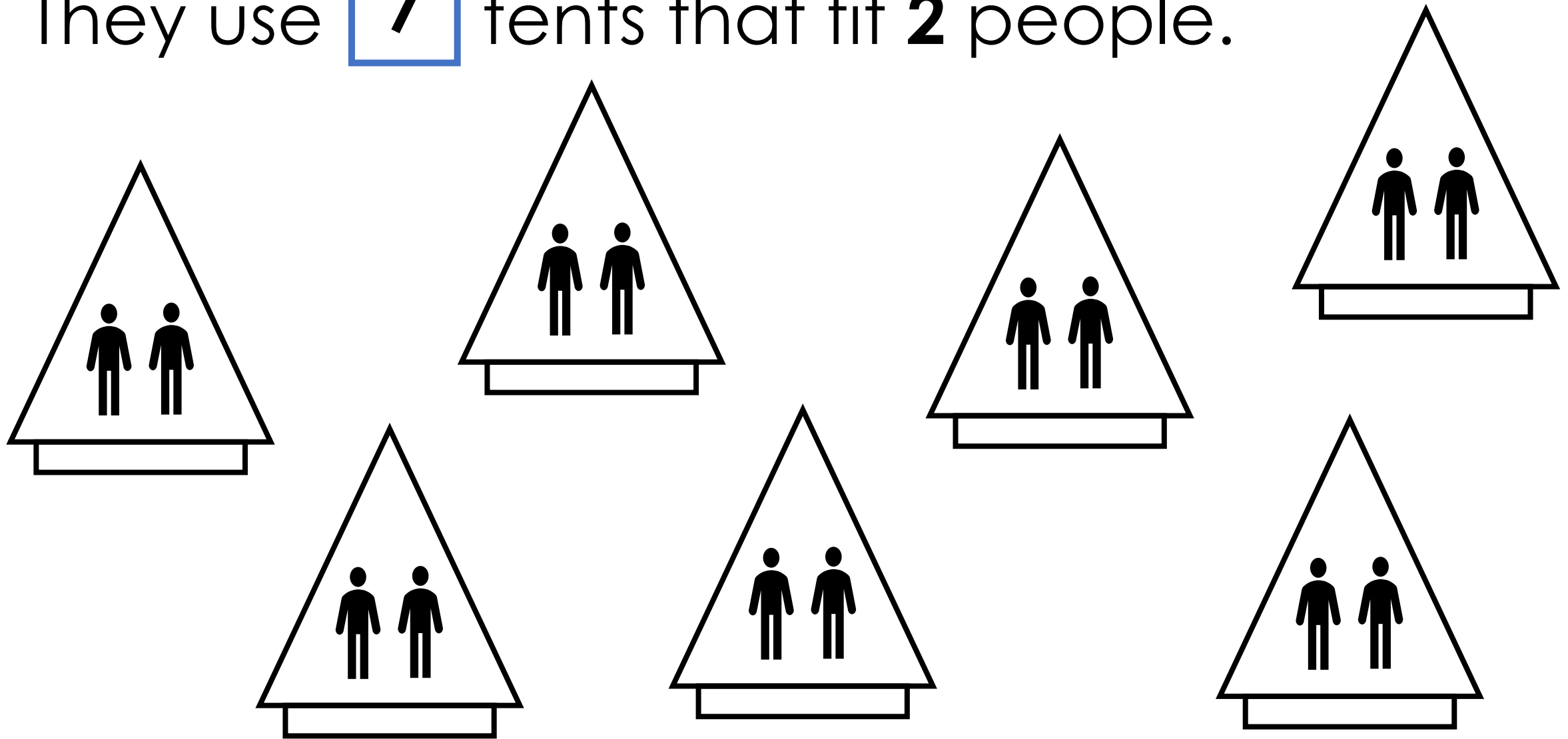


Camping Trip

Part 1

14 people camping.

They use **7** tents that fit **2** people.

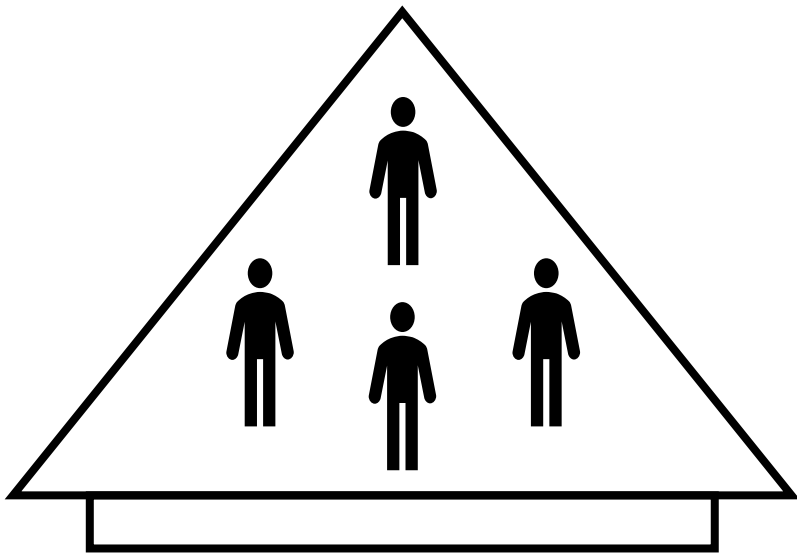


Camping Trip

Part 1

12 people camping.

They use tents that fit **4** people.

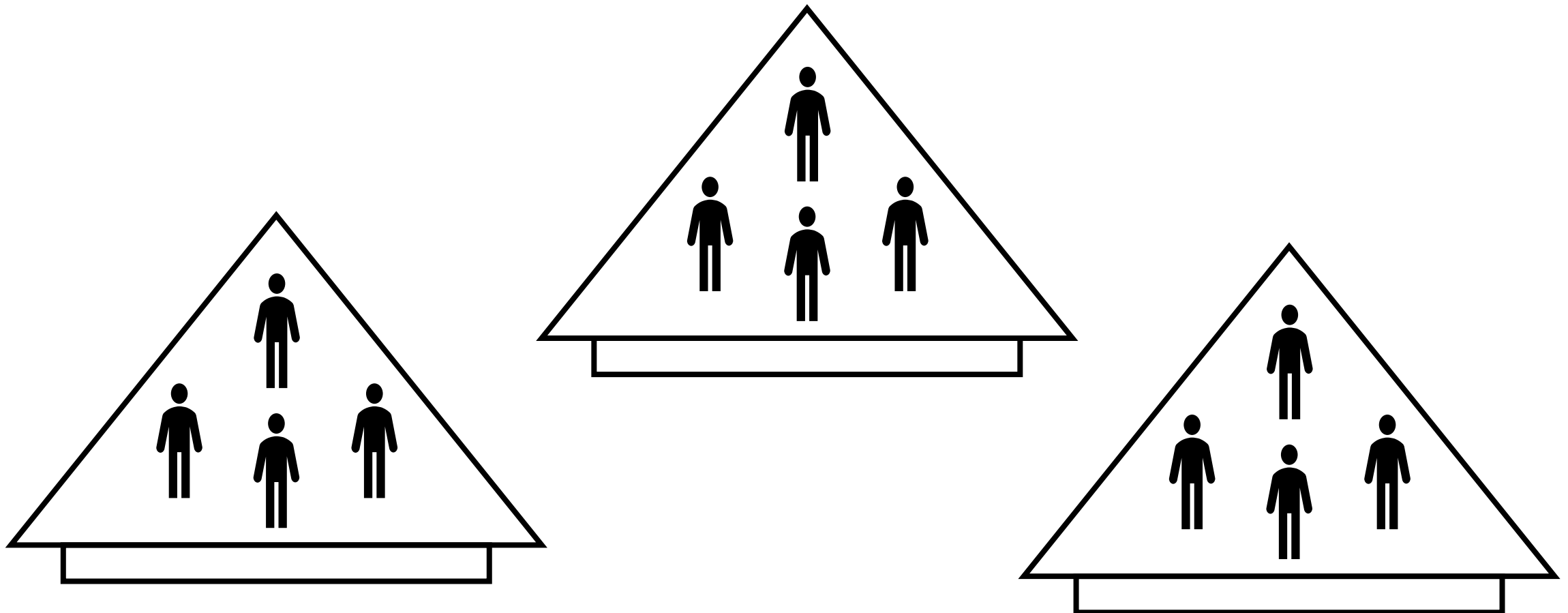


Camping Trip

Part 1

12 people camping.

They use tents that fit 4 people.

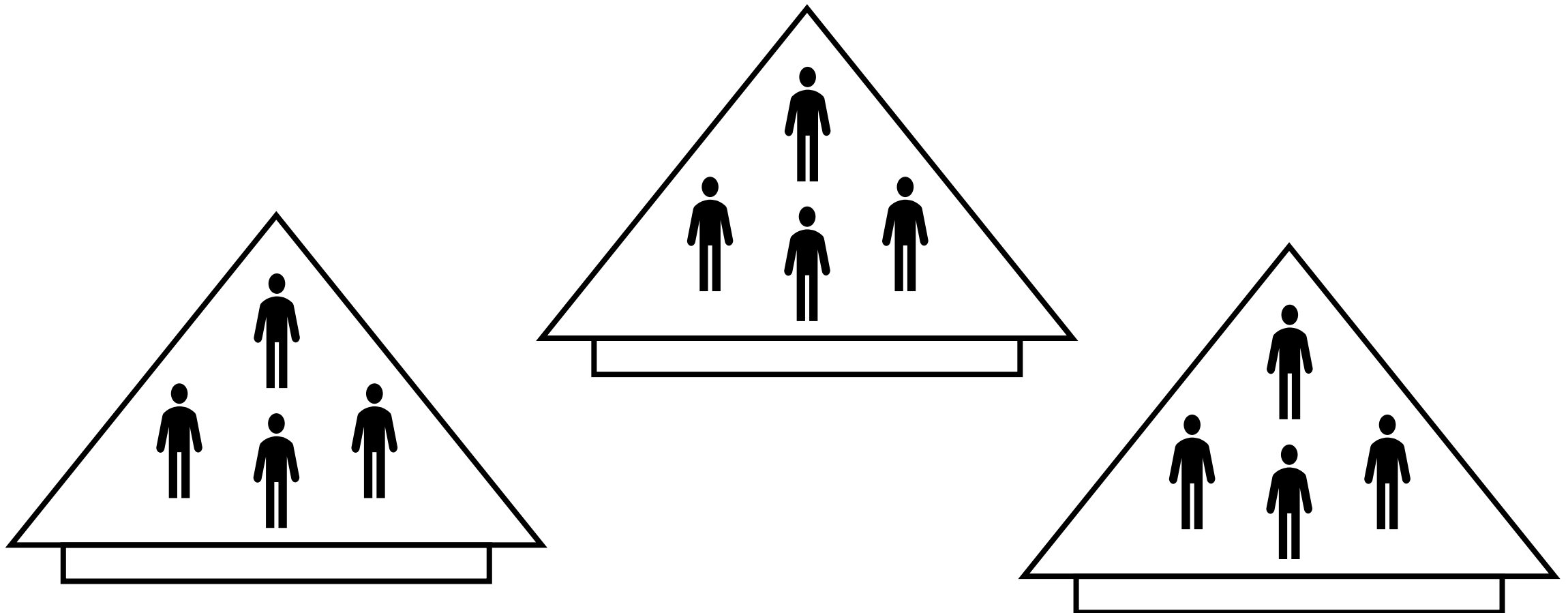


Camping Trip

Part 1

12 people camping.

They use **3** tents that fit **4** people.

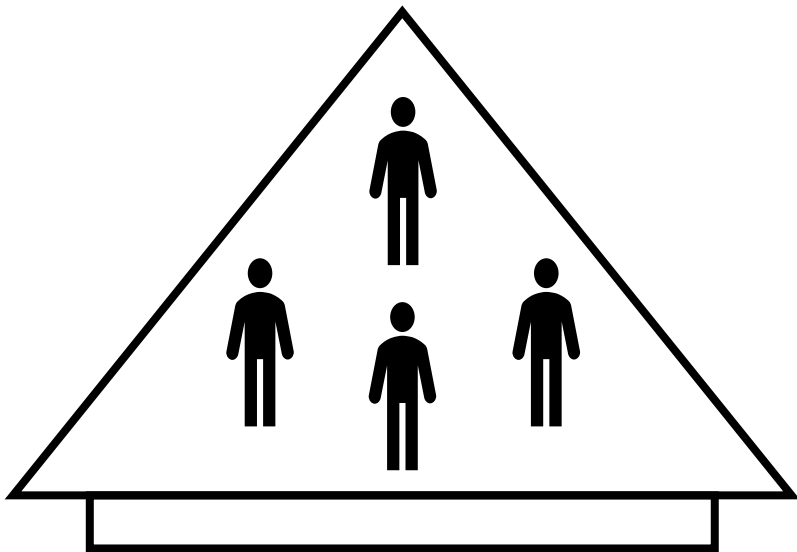


Camping Trip

Part 1

11 people camping.

They use tents that fit **4** people.

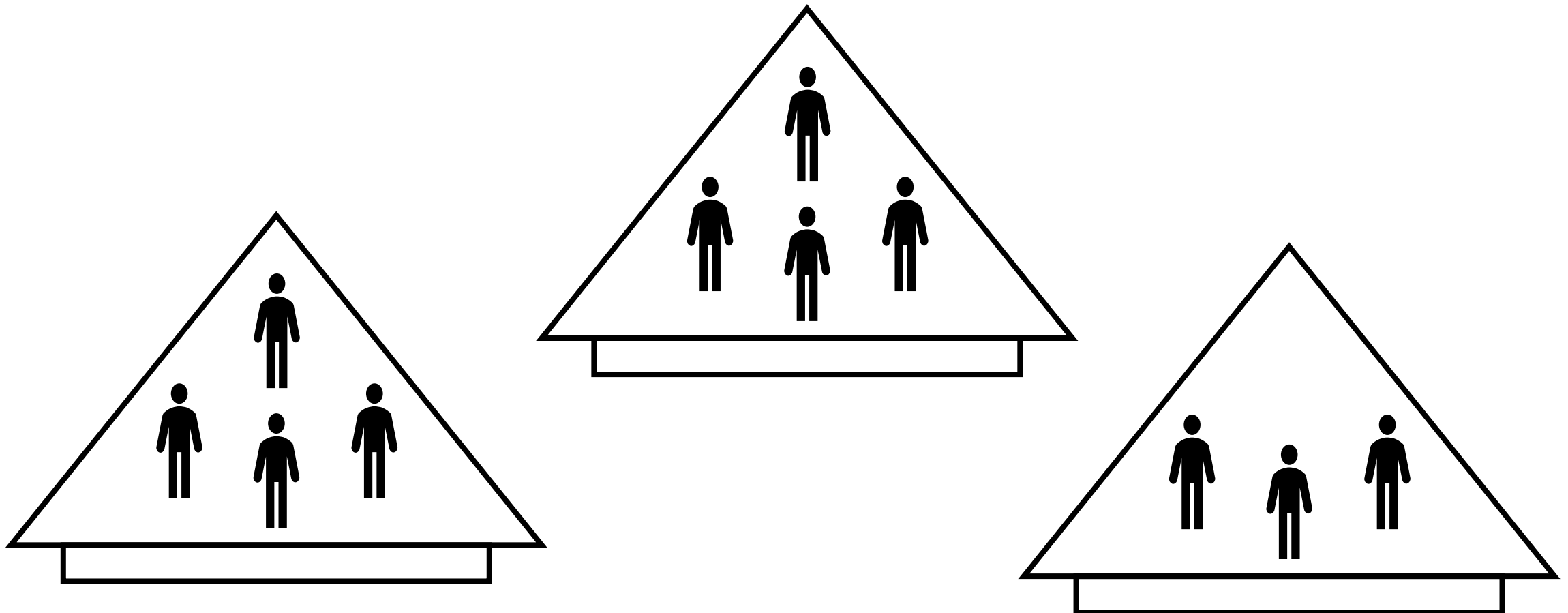


Camping Trip

Part 1

11 people camping.

They use tents that fit 4 people.

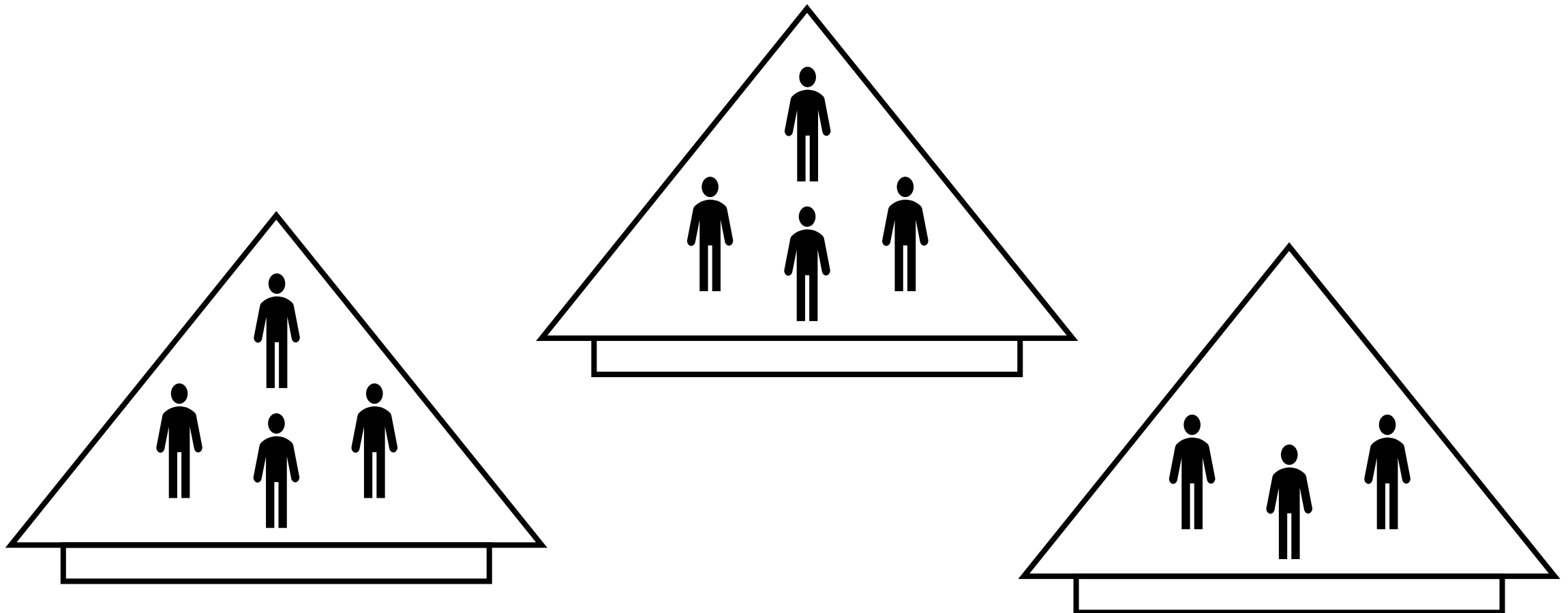


Camping Trip

Part 1

11 people camping.

They use **3** tents that fit **4** people.



Camping Trip

Part 2

10 people camping.

They use **5** tents.

They use tents of the same size.

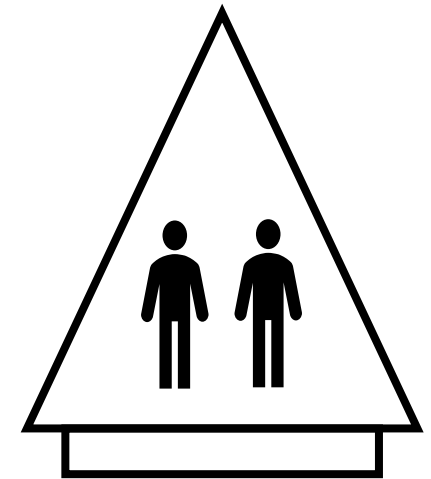
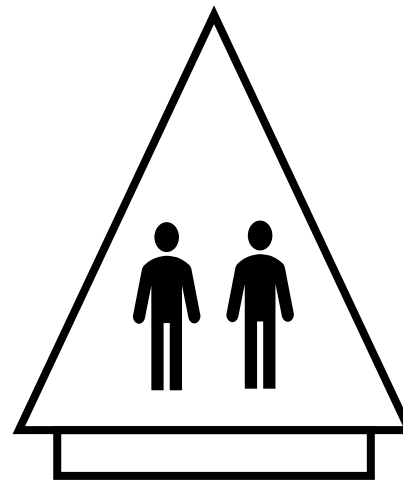
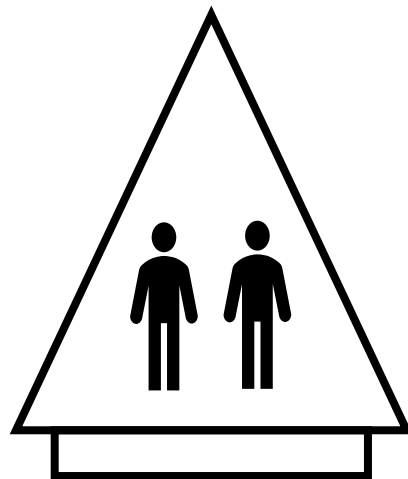
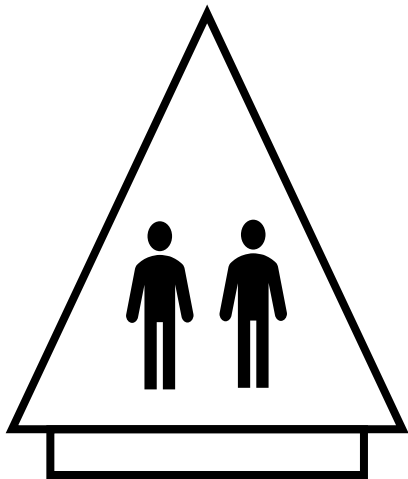
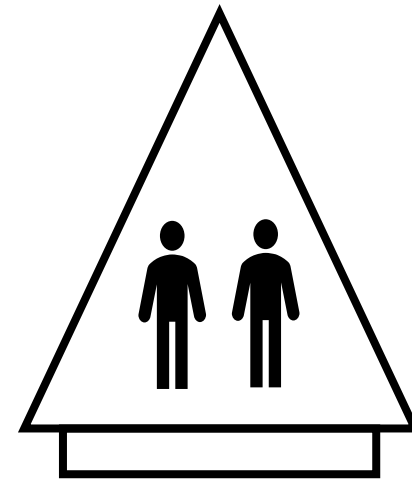
Camping Trip

Part 2

10 people camping.

They use **5** tents.

They use tents of the same size.



Camping Trip

10 people camping.

They use **2** tents.

They use tents of the same size.

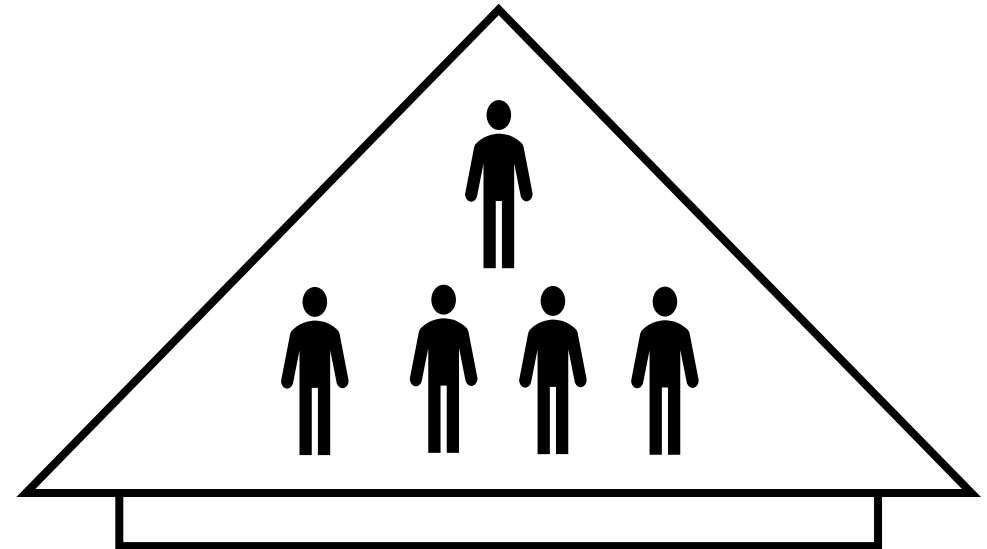
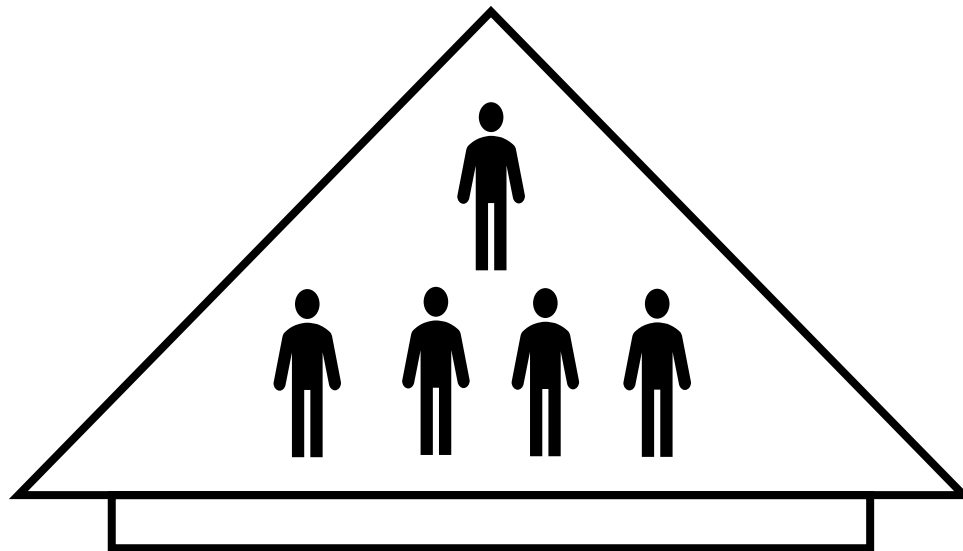
Camping Trip

Part 2

10 people camping.

They use **2** tents.

They use tents of the same size.



Camping Trip

Part 2

14 people camping.

They use **4** tents.

Some tents are
different sizes.

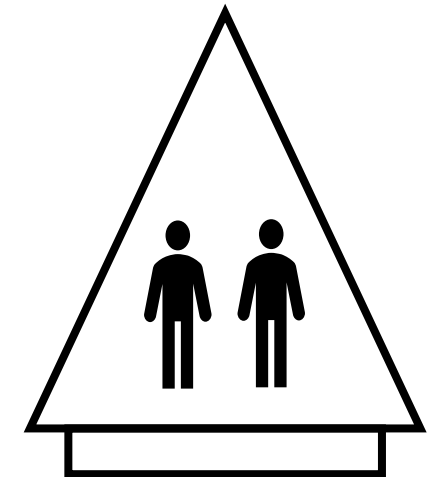
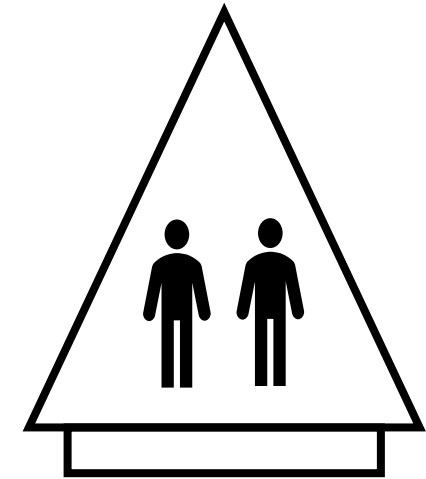
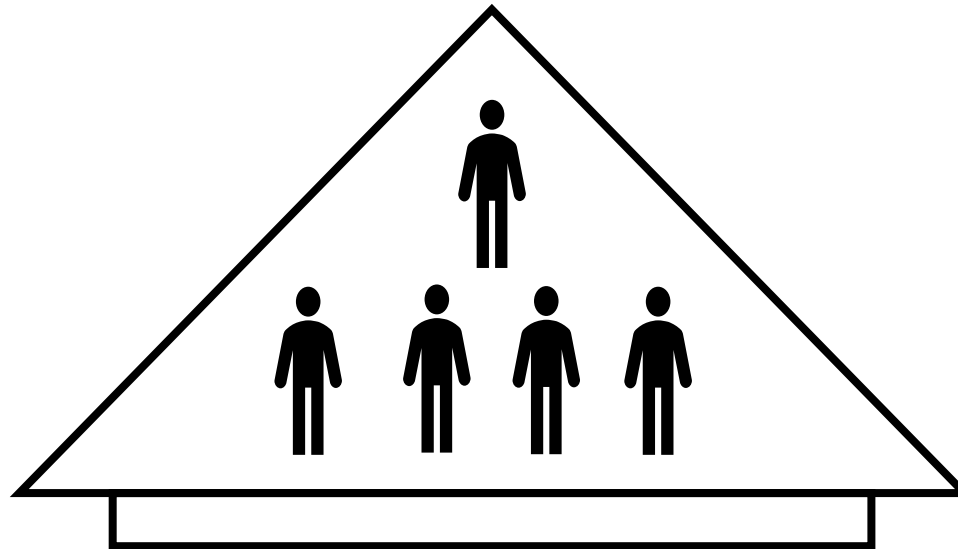
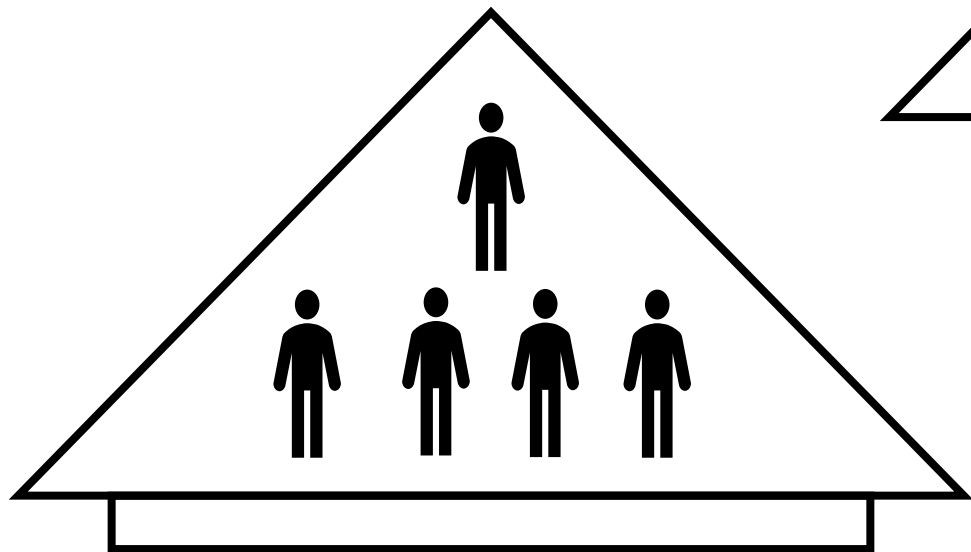
Camping Trip

Part 2

14 people camping.

They use **4** tents.

Some tents are different sizes.



Combinations

Part 1

Tim has 3 t-shirts:



Tim has 3 pairs of trousers:



How many outfits can he make?

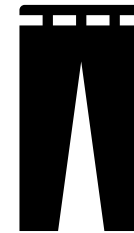
Combinations

Part 1

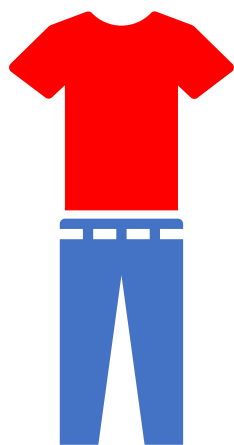
Tim has 3 t-shirts:



Tim has 3 pairs of trousers:



How many outfits can he make?



Combinations

Part 1

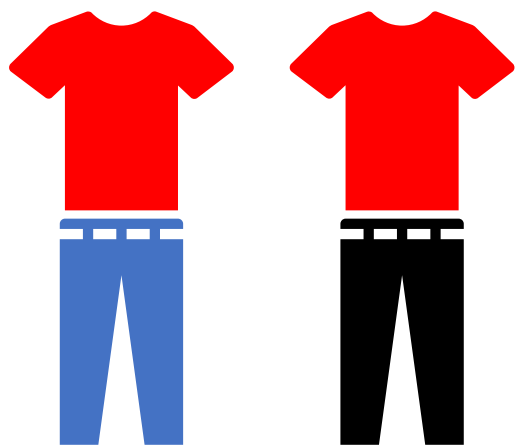
Tim has 3 t-shirts:



Tim has 3 pairs of trousers:







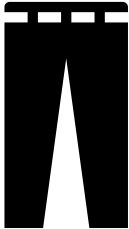

How many outfits can he make?



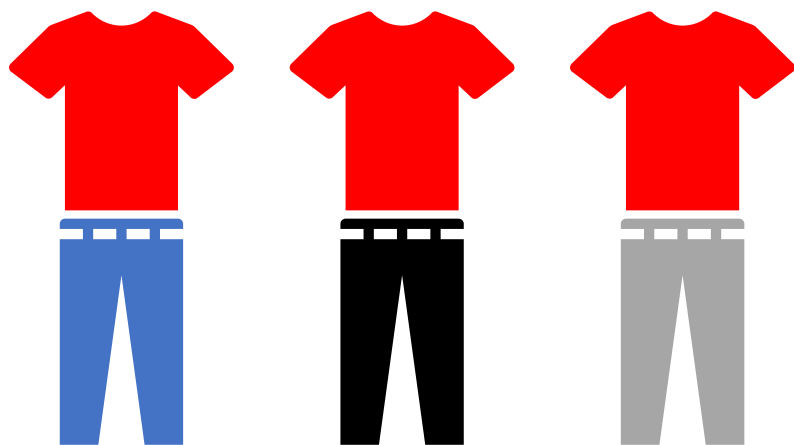
Combinations

Part 1

Tim has 3 t-shirts:   

Tim has 3 pairs of trousers:   

How many outfits can he make?



Combinations

Part 1

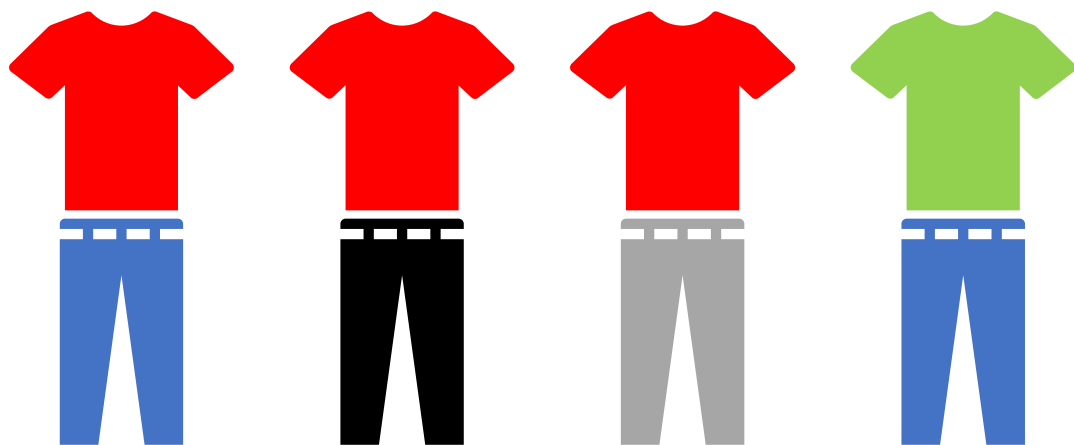
Tim has 3 t-shirts:



Tim has 3 pairs of trousers:



How many outfits can he make?



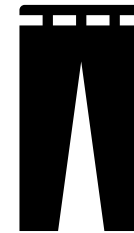
Combinations

Part 1

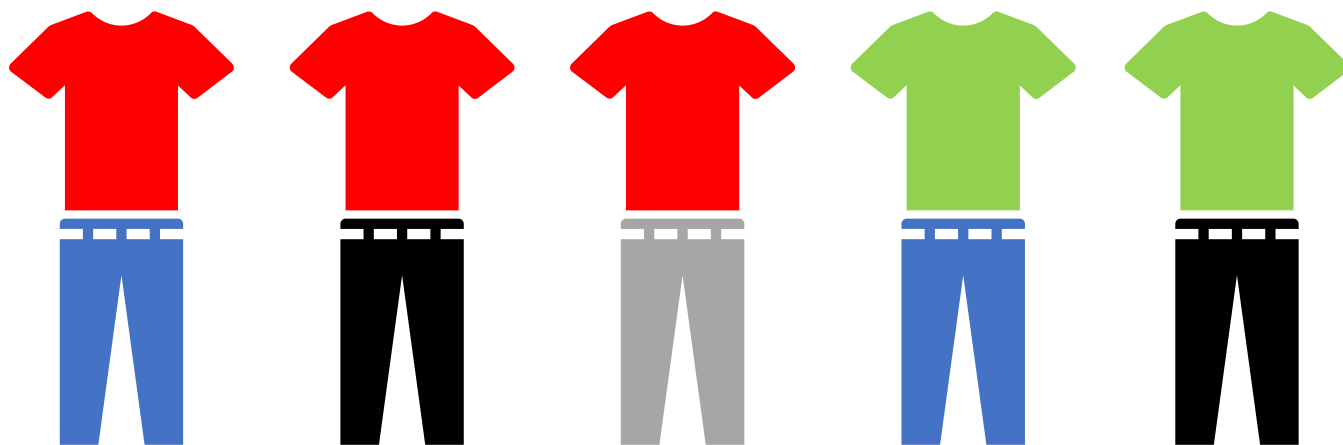
Tim has 3 t-shirts:



Tim has 3 pairs of trousers:



How many outfits can he make?



Combinations

Part 1

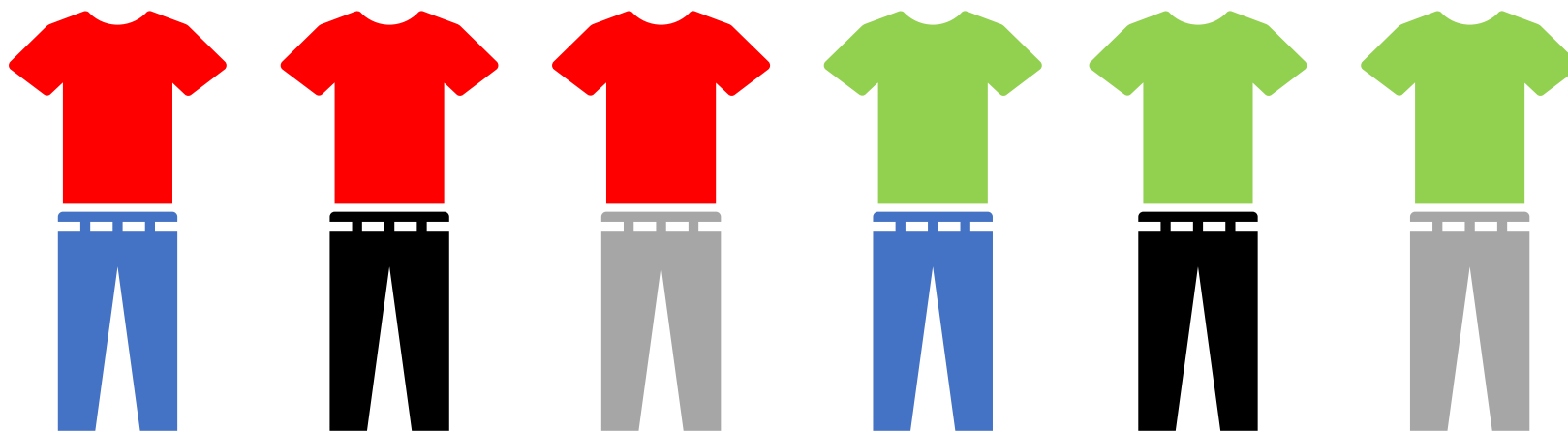
Tim has 3 t-shirts:



Tim has 3 pairs of trousers:







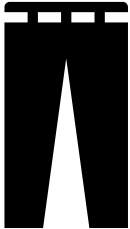

How many outfits can he make?



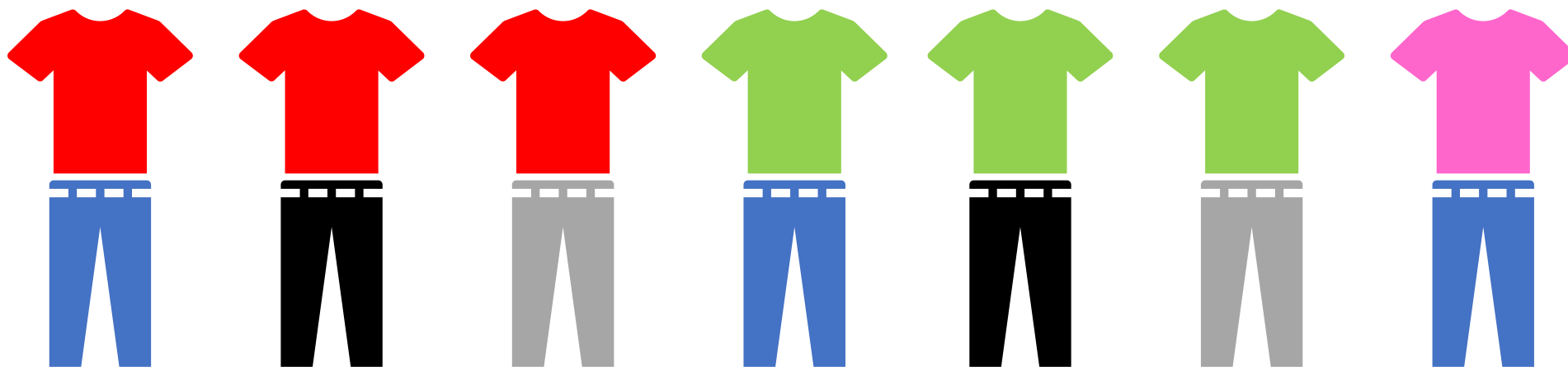
Combinations

Part 1

Tim has 3 t-shirts:   




Tim has 3 pairs of trousers:   


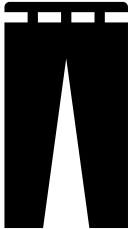

How many outfits can he make?



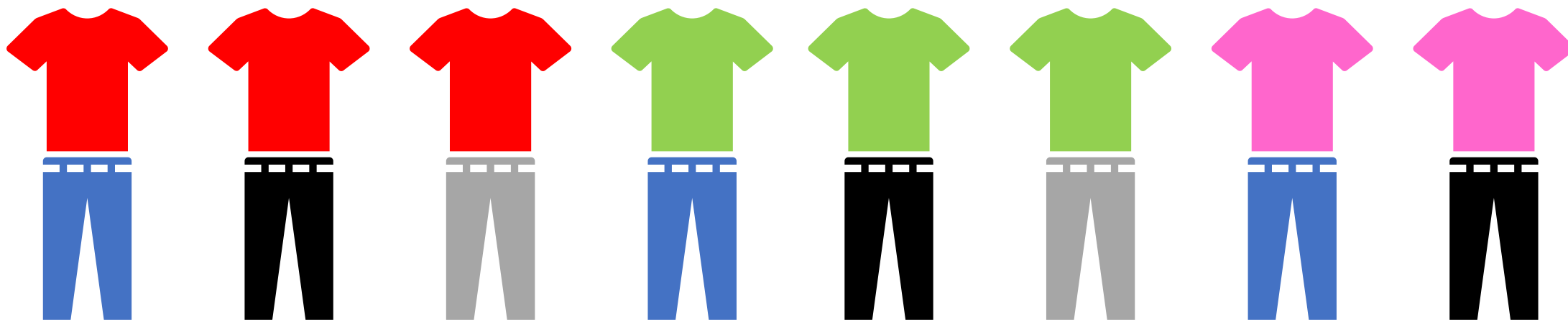
Combinations

Part 1

Tim has 3 t-shirts:   




Tim has 3 pairs of trousers:   


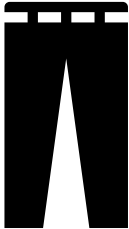

How many outfits can he make?



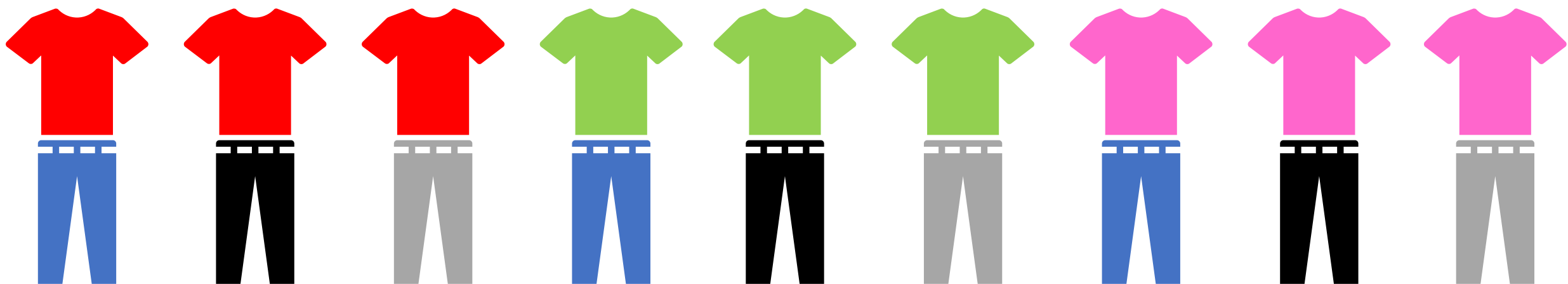
Combinations

Part 1

Tim has 3 t-shirts:   

Tim has 3 pairs of trousers:   

How many outfits can he make?



Combinations

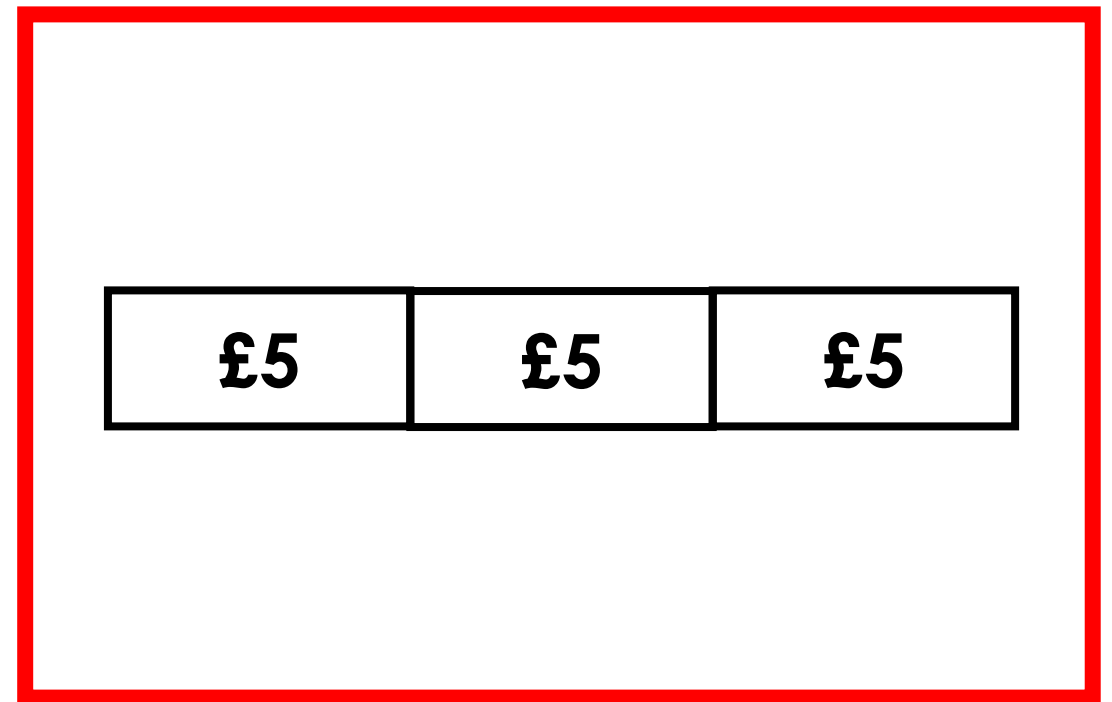
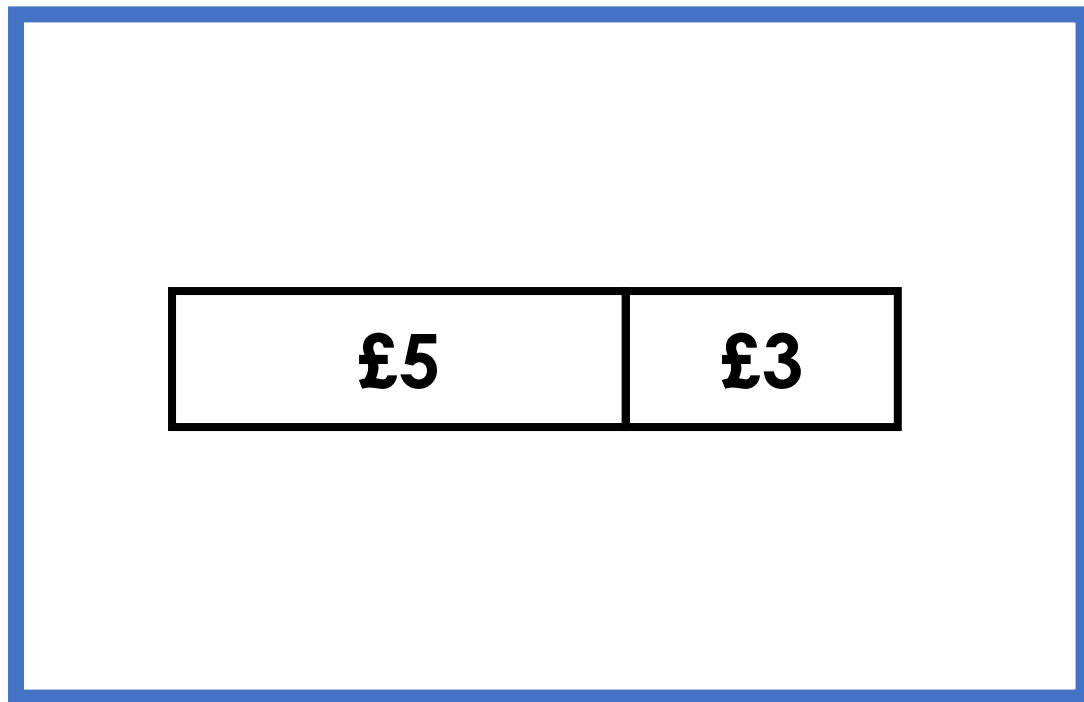
Part 2

Beth is given **£5** per day for doing the gardening.

She does the gardening for **3** days.

How much money does she earn in total?

Which Picture?



Combinations

Part 2

Beth is given **£5** per day for doing the gardening.

She does the gardening for **3** days.

How much money does she earn in total?

Which Picture?

£5	£3
-----------	-----------

✓		
£5	£5	£5

Combinations

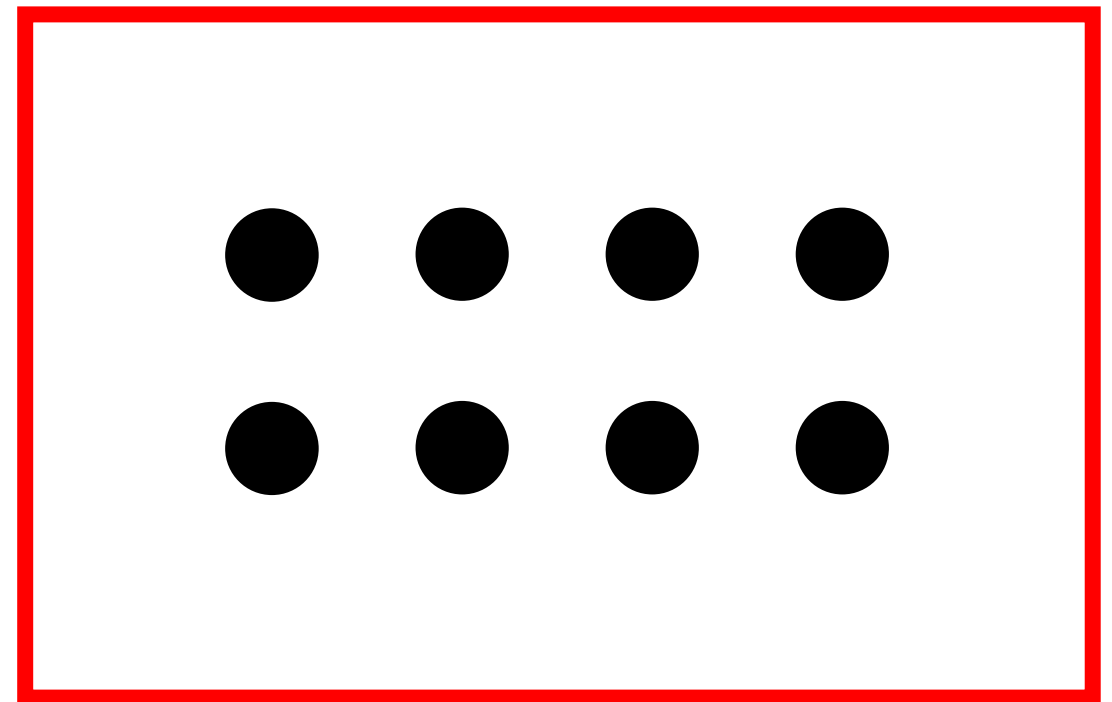
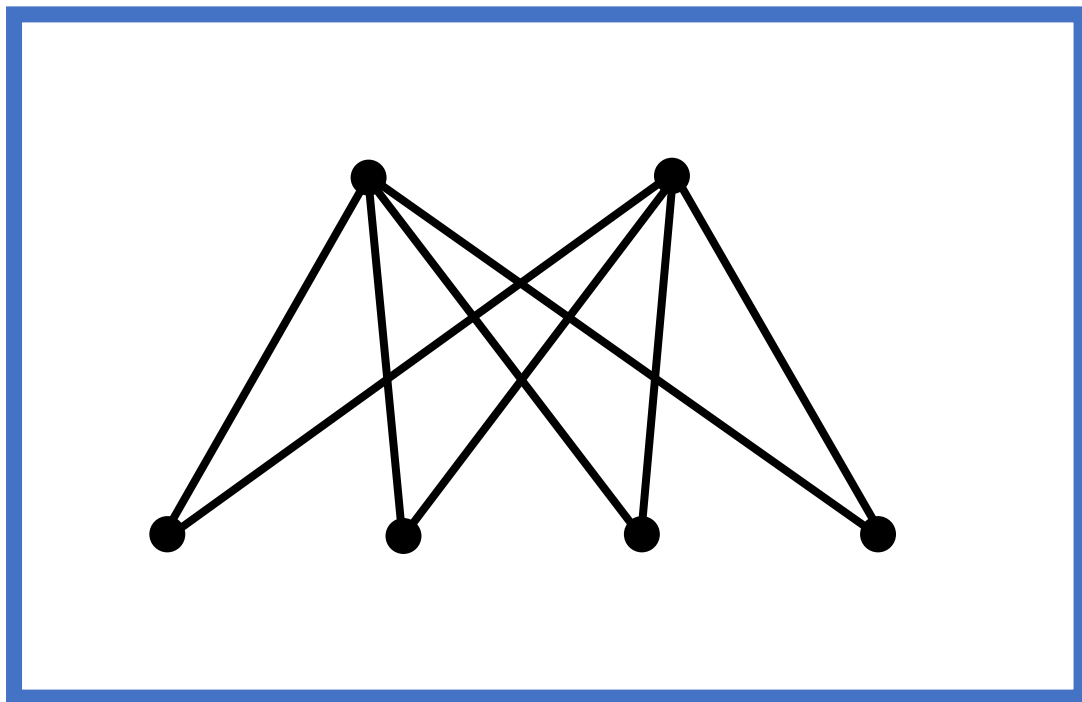
Part 2

Your sandwich can be **white bread** or **brown bread**.

Your sandwich can be **cheese**, **ham**, **tuna** or **jam**.

How many different sandwiches can be made?

Which Picture?



Combinations

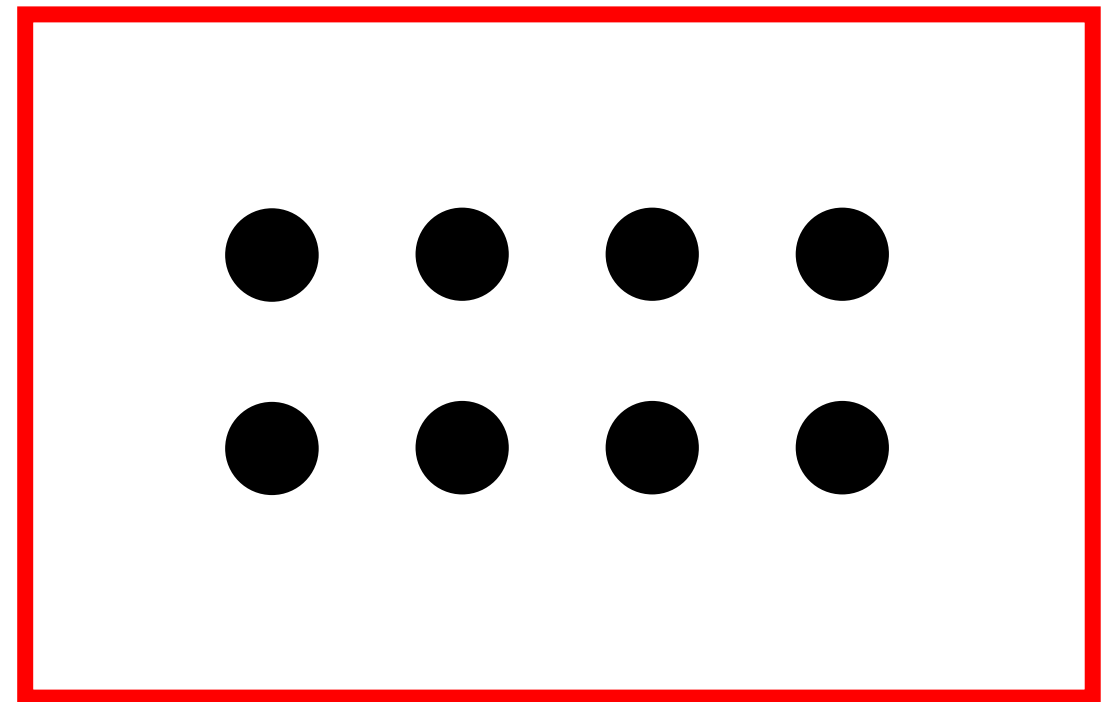
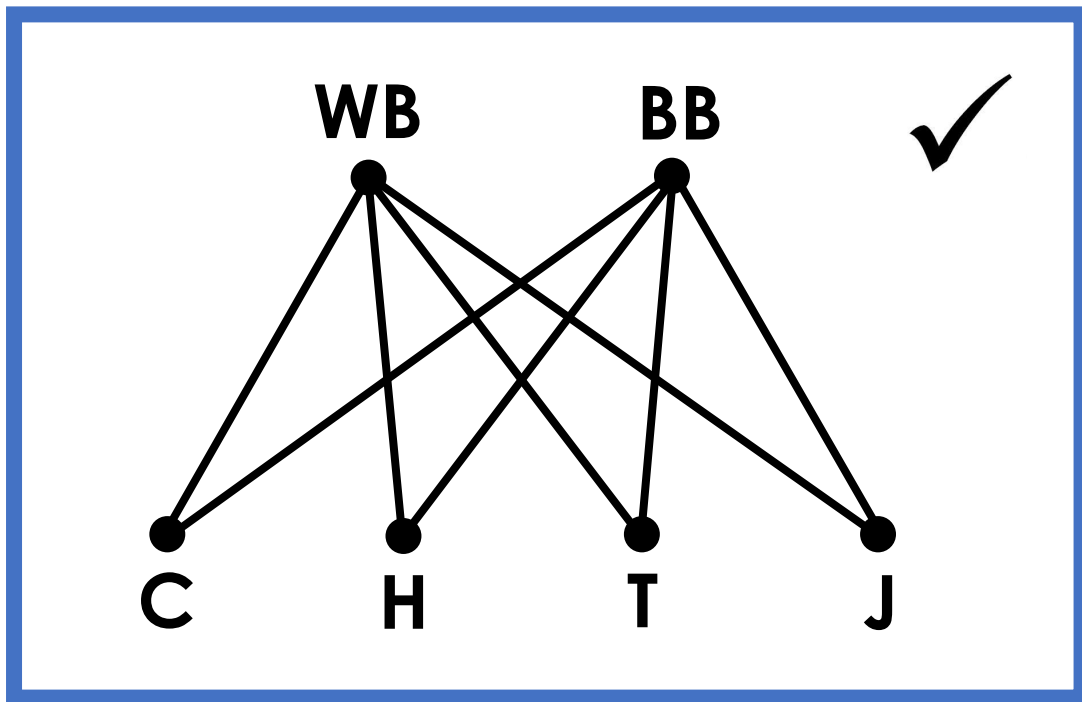
Part 2

Your sandwich can be **white bread** or **brown bread**.

Your sandwich can be **cheese**, **ham**, **tuna** or **jam**.

How many different sandwiches can be made?

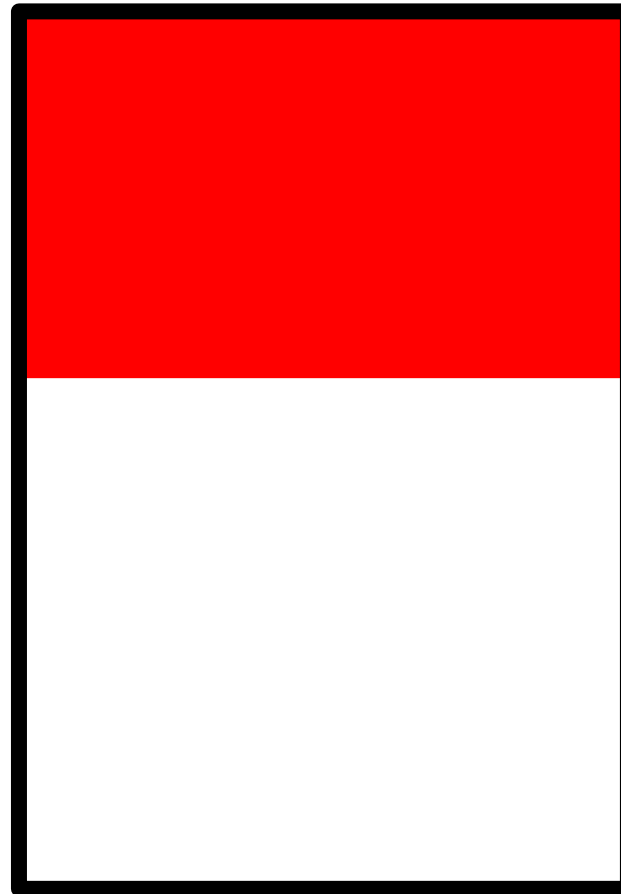
Which Picture?



Estimating Fractions

Part 1

What do you notice?

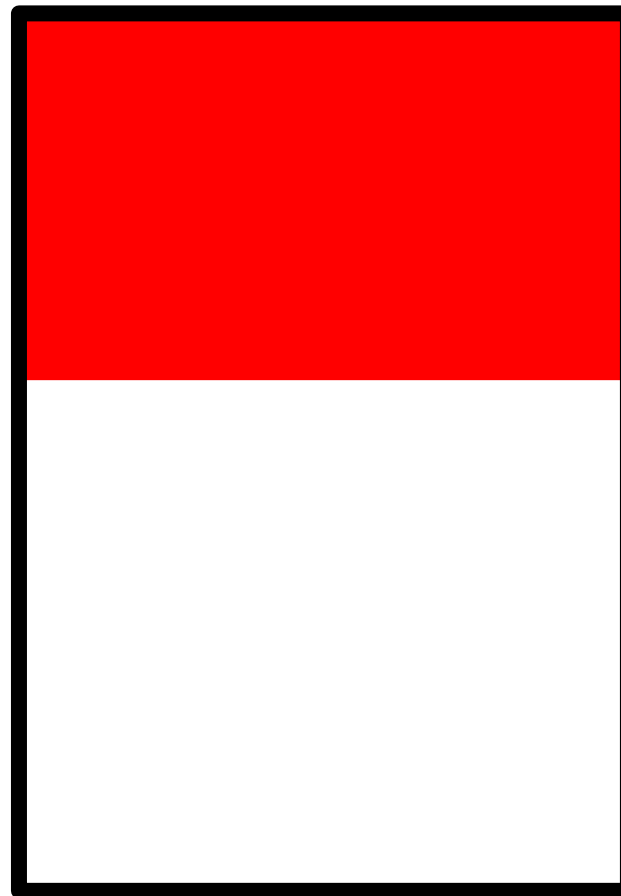


Estimating Fractions

Part 1

Which coloured part is the largest **in size**?

Which coloured part is the largest **as a fraction**?

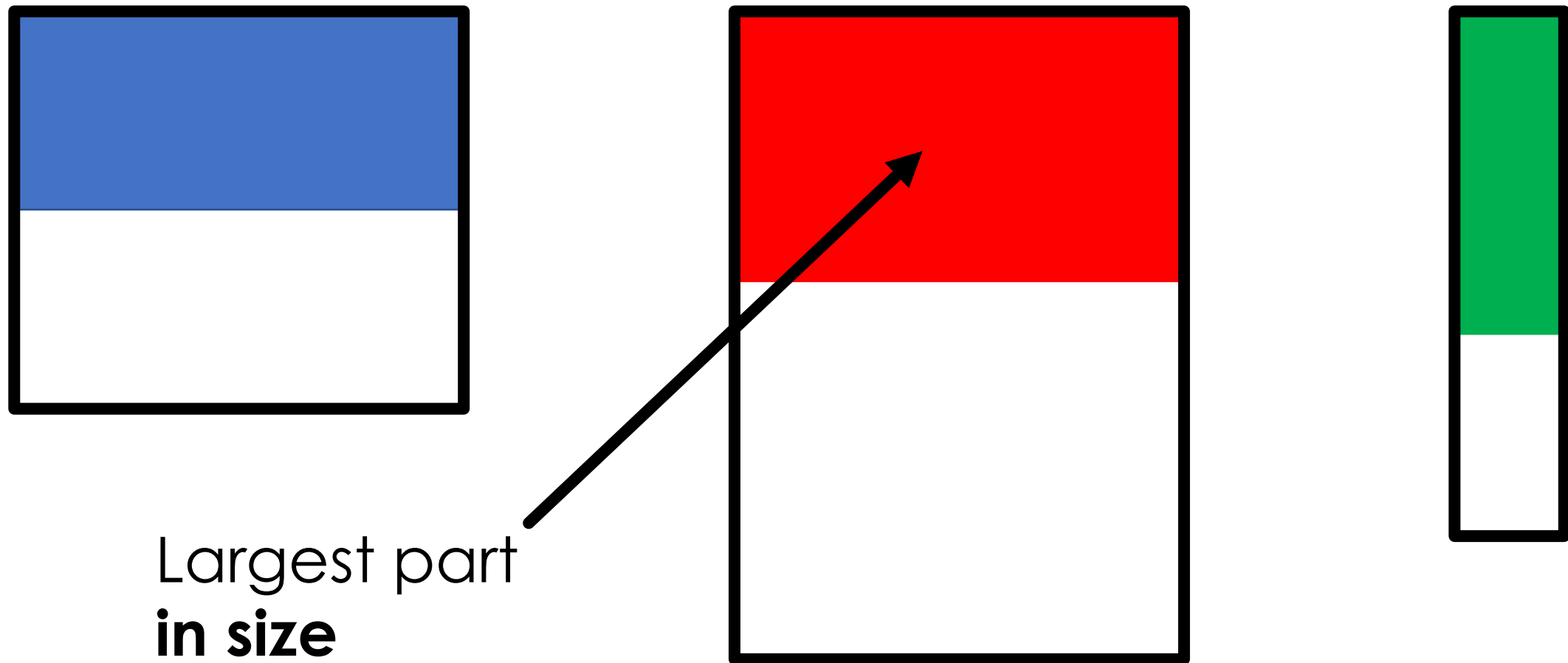


Estimating Fractions

Part 1

Which coloured part is the largest **in size**?

Which coloured part is the largest **as a fraction**?



Estimating Fractions

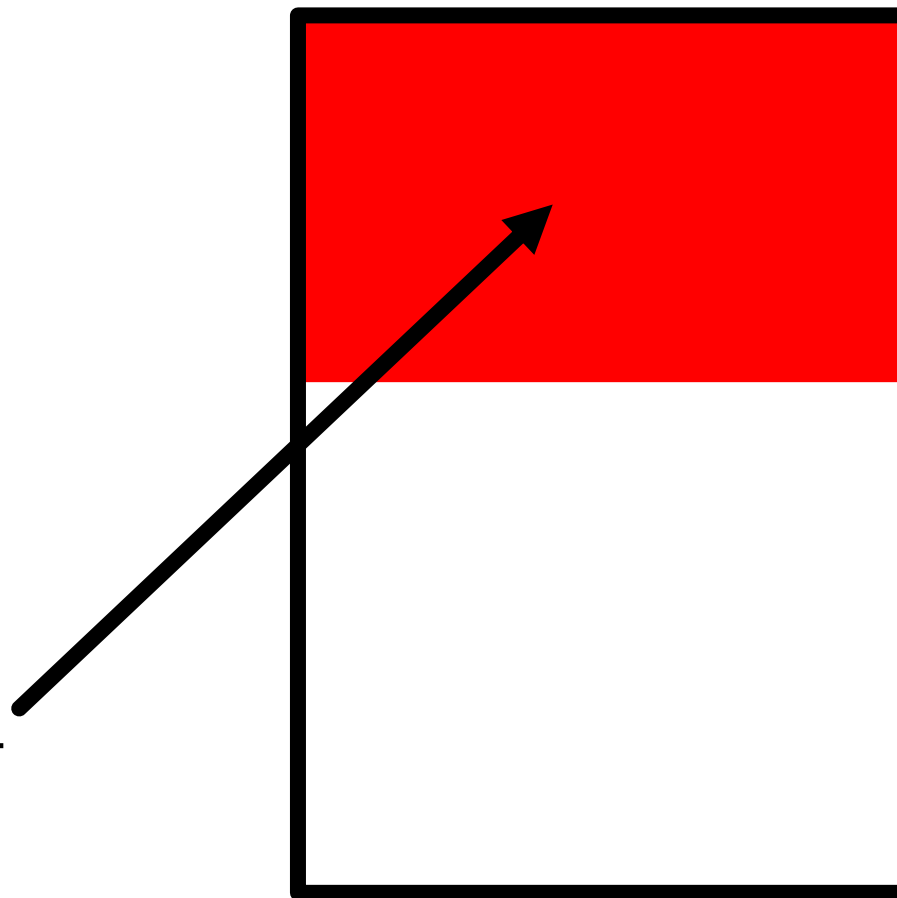
Part 1

Which coloured part is the largest **in size**?

Which coloured part is the largest **as a fraction**?



Largest part
in size

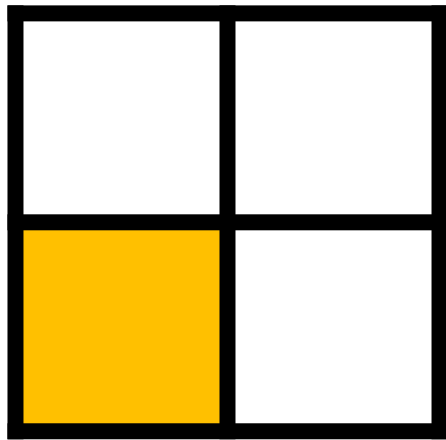


Largest part
as a fraction

Estimating Fractions

Part 1

What do you notice?

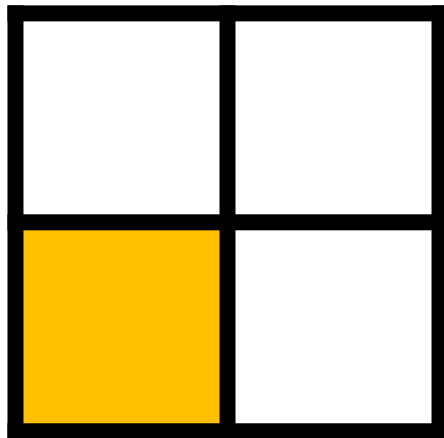


Estimating Fractions

Part 1

Which coloured part is the largest **in size**?

Which coloured part is the largest **as a fraction**?

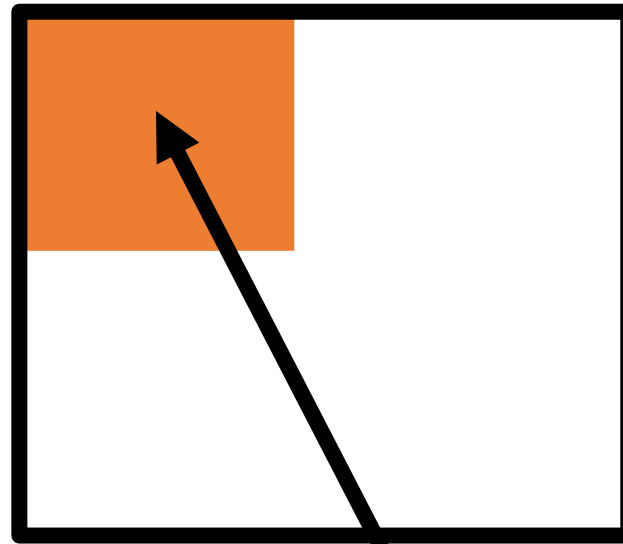
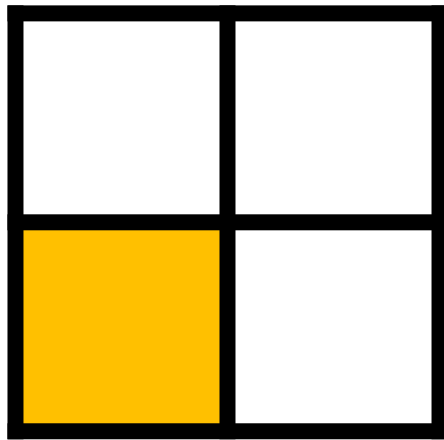


Estimating Fractions

Part 1

Which coloured part is the largest **in size**?

Which coloured part is the largest **as a fraction**?



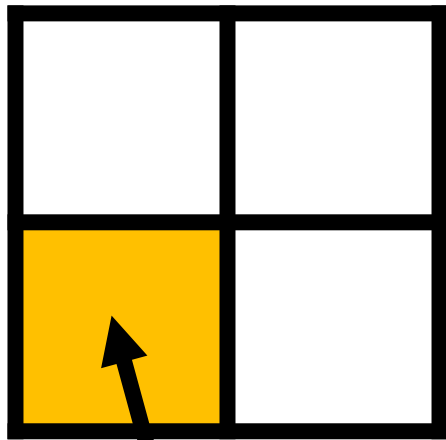
Largest part
in size

Estimating Fractions

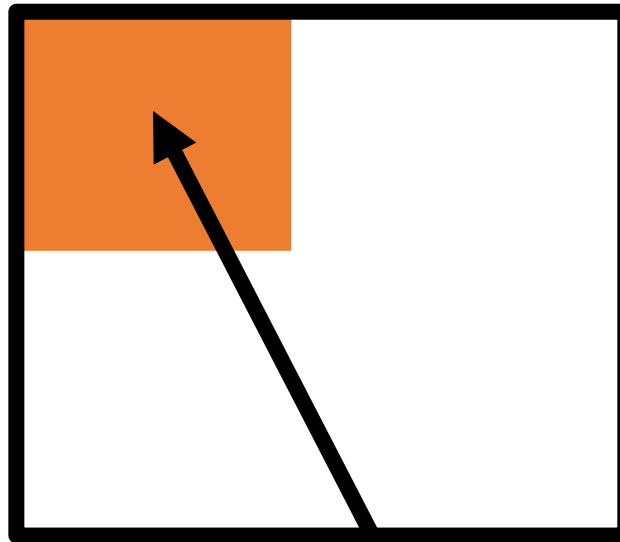
Part 1

Which coloured part is the largest **in size**?

Which coloured part is the largest **as a fraction**?



Largest part
as a fraction



Largest part
in size



Estimating Fractions

Part 2

As a fraction of the shape, is the coloured part...

Less than $\frac{1}{4}$

$\frac{1}{4}$

More than $\frac{1}{4}$

Estimating Fractions

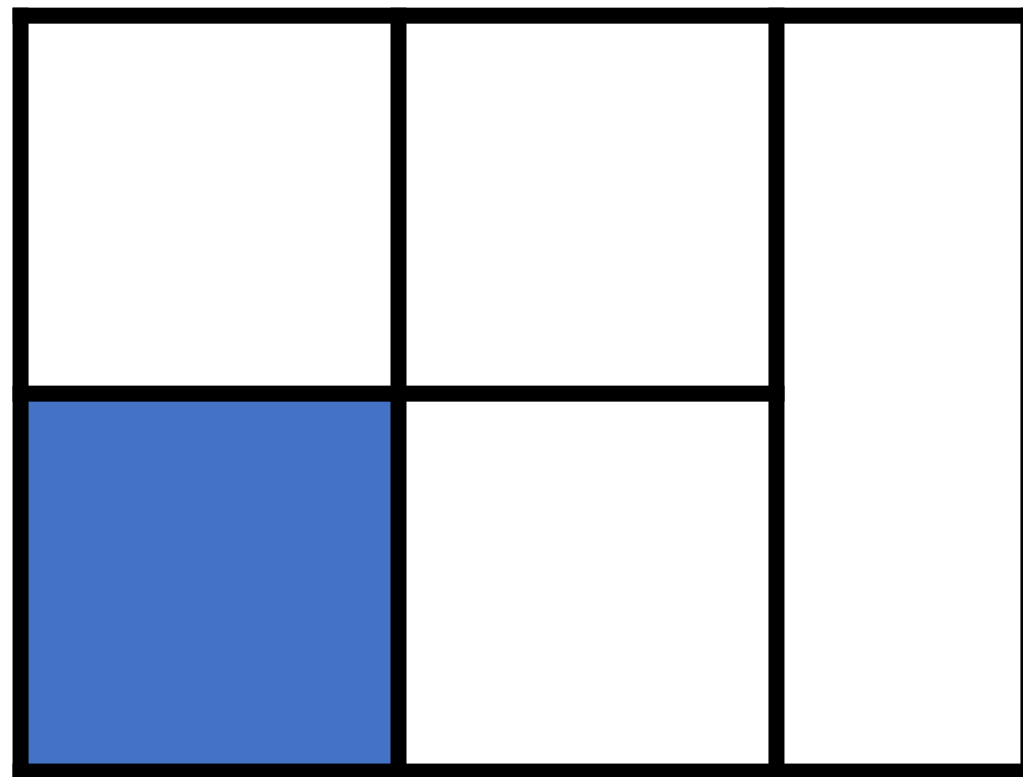
Part 2

As a fraction of the shape, is the coloured part...

Less than $\frac{1}{4}$

$\frac{1}{4}$

More than $\frac{1}{4}$



Estimating Fractions

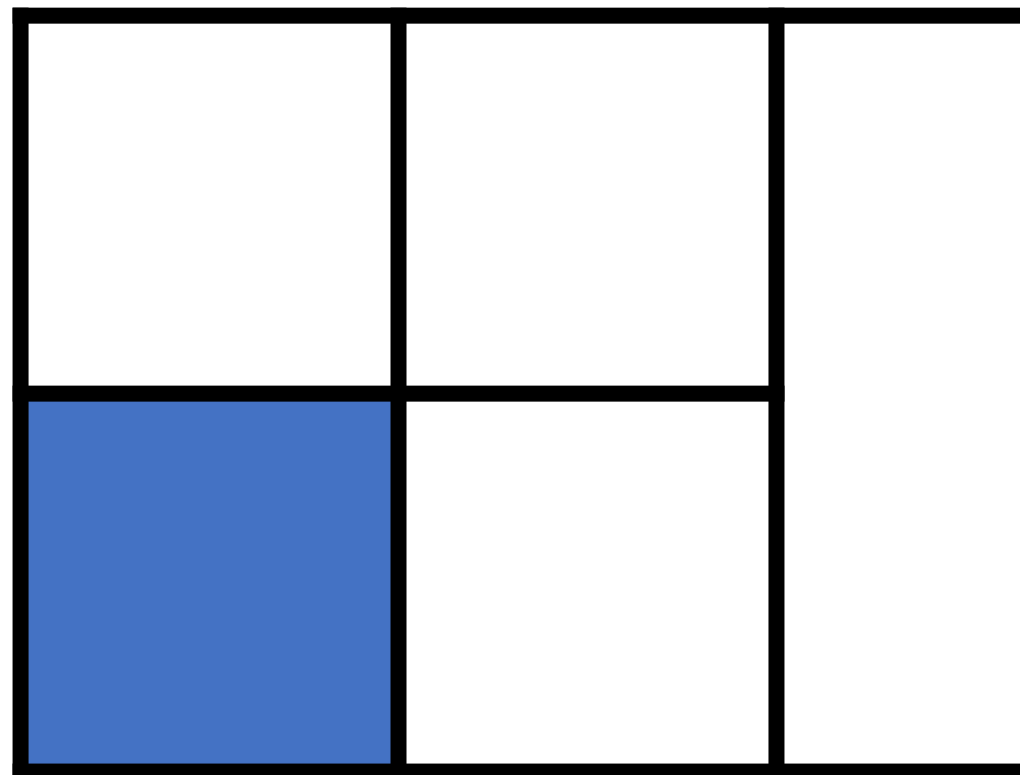
Part 2

As a fraction of the shape, is the coloured part...

Less than $\frac{1}{4}$

$\frac{1}{4}$

More than $\frac{1}{4}$



Estimating Fractions

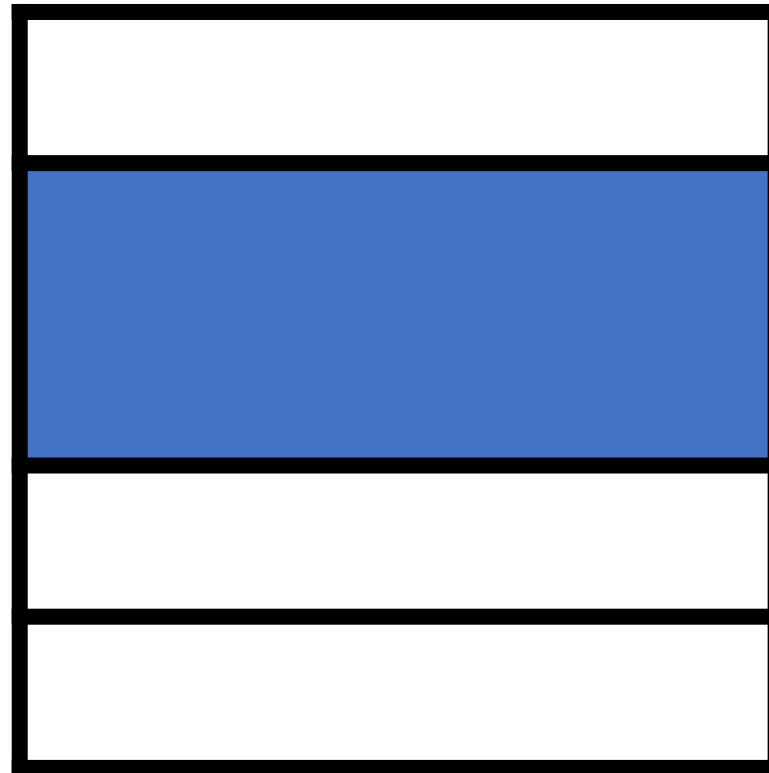
Part 2

As a fraction of the shape, is the coloured part...

Less than $\frac{1}{4}$

$\frac{1}{4}$

More than $\frac{1}{4}$



Estimating Fractions

Part 2

As a fraction of the shape, is the coloured part...

Less than $\frac{1}{4}$

$\frac{1}{4}$

More than $\frac{1}{4}$



Estimating Fractions

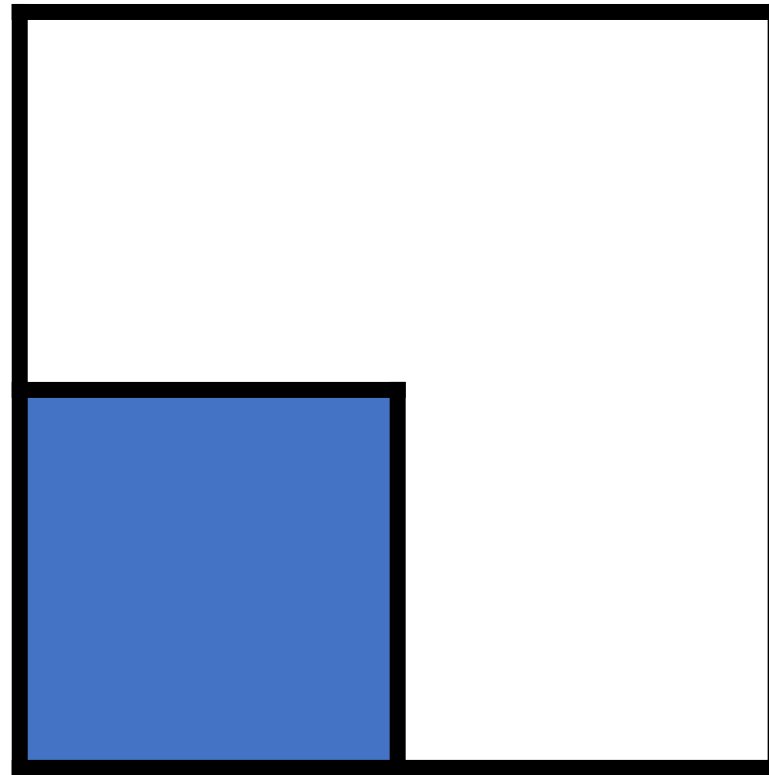
Part 2

As a fraction of the shape, is the coloured part...

Less than $\frac{1}{4}$

$\frac{1}{4}$

More than $\frac{1}{4}$



Estimating Fractions

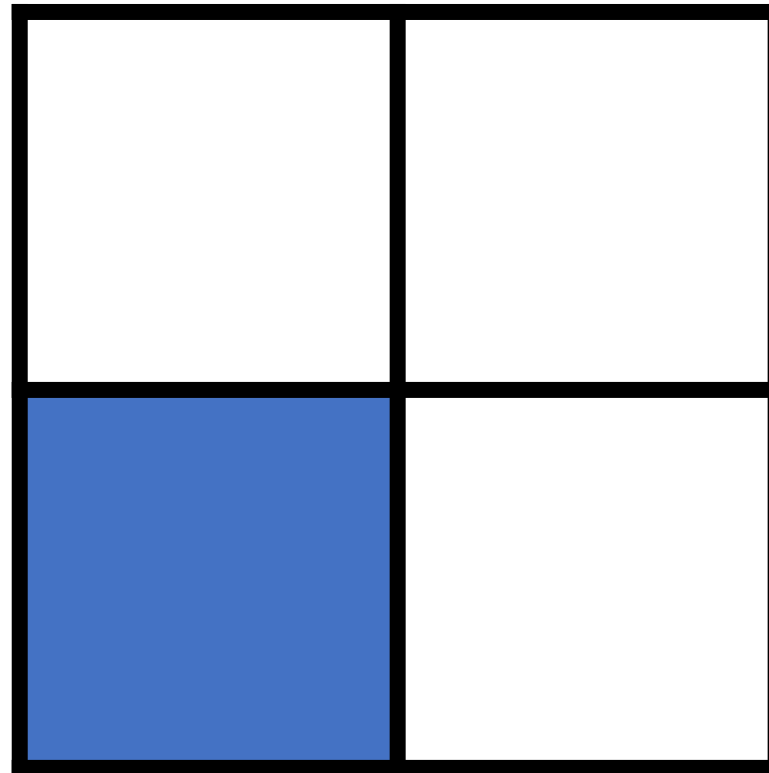
Part 2

As a fraction of the shape, is the coloured part...

Less than $\frac{1}{4}$

$\frac{1}{4}$

More than $\frac{1}{4}$



Estimating Fractions

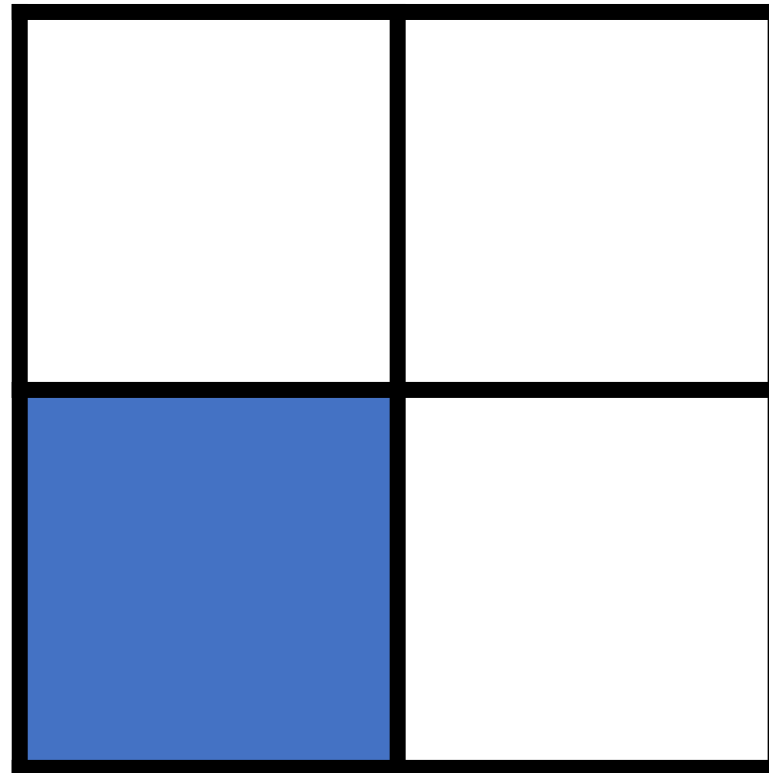
Part 2

As a fraction of the shape, is the coloured part...

Less than $\frac{1}{4}$

$\frac{1}{4}$

More than $\frac{1}{4}$



Estimating Fractions

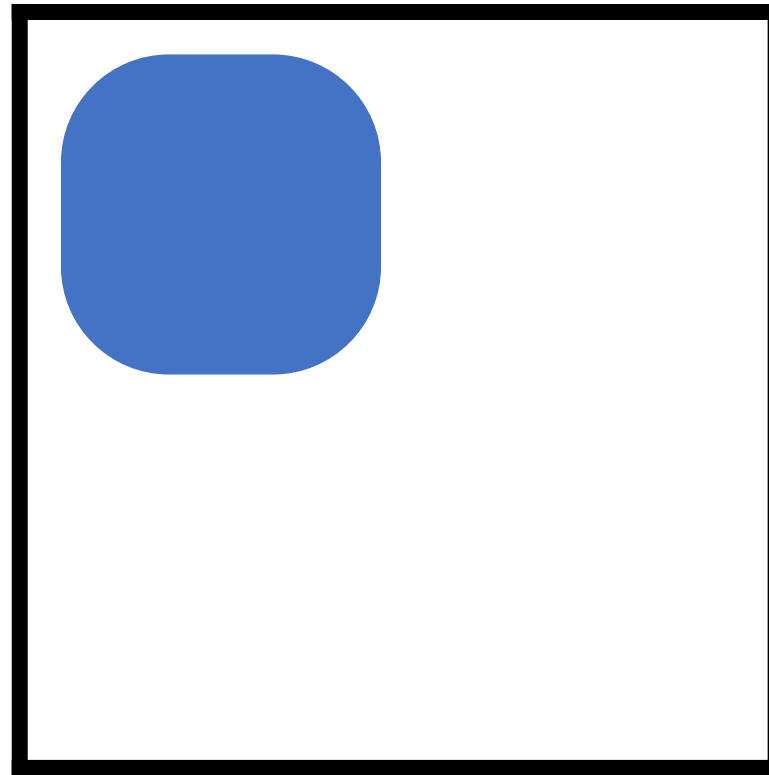
Part 2

As a fraction of the shape, is the coloured part...

Less than $\frac{1}{4}$

$\frac{1}{4}$

More than $\frac{1}{4}$



Estimating Fractions

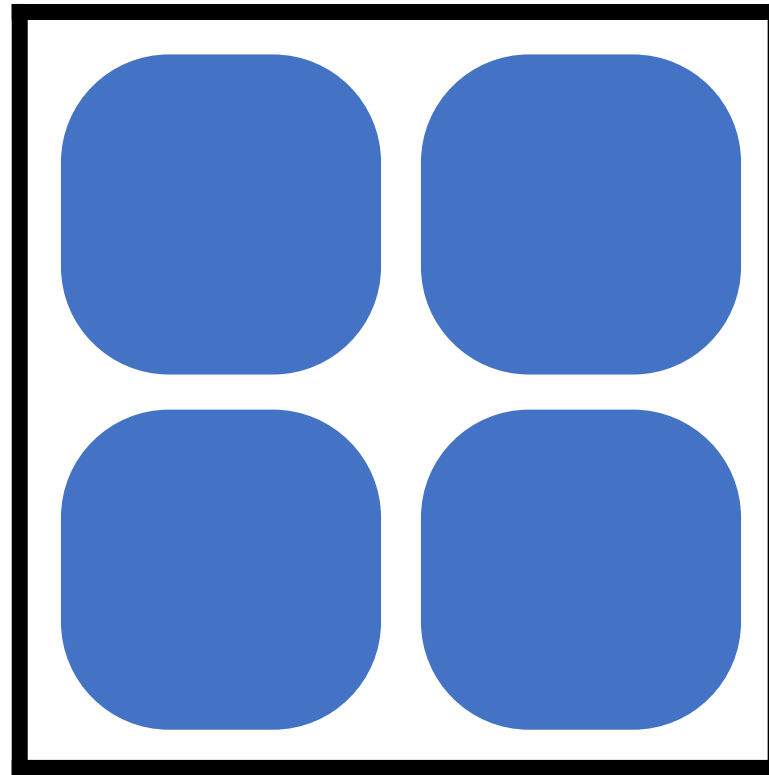
Part 2

As a fraction of the shape, is the coloured part...

Less than $\frac{1}{4}$

$\frac{1}{4}$

More than $\frac{1}{4}$



Estimating Fractions

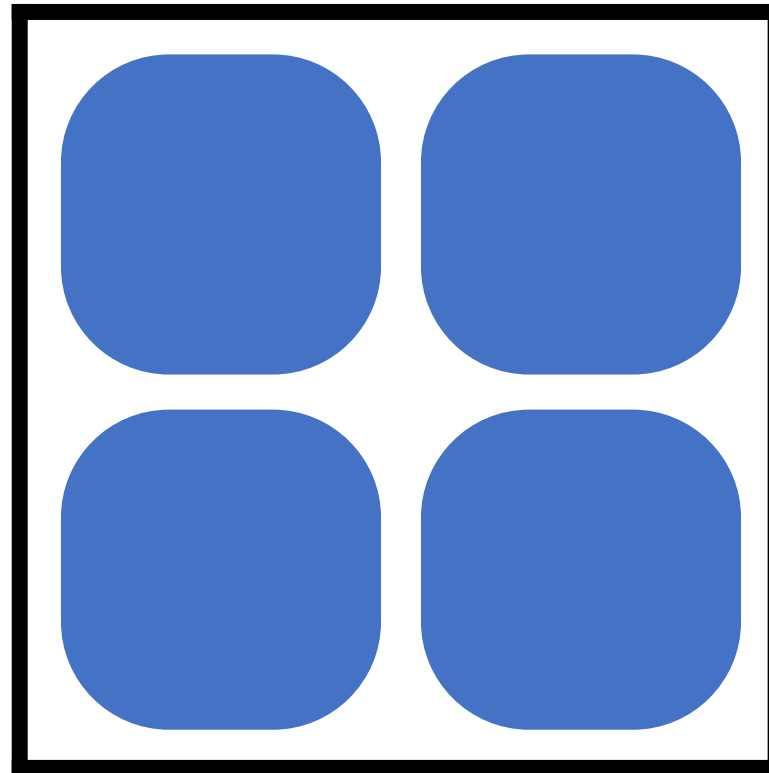
Part 2

As a fraction of the shape, is the coloured part...

Less than $\frac{1}{4}$

$\frac{1}{4}$

More than $\frac{1}{4}$



Estimating Fractions

Part 3

Sort the fraction into:

Less than $\frac{1}{4}$

More than $\frac{1}{4}$ less than $\frac{1}{2}$

More than $\frac{1}{2}$

Estimating Fractions

Part 3

Sort the fraction into:

Less than $\frac{1}{4}$

More than $\frac{1}{4}$ less than $\frac{1}{2}$

More than $\frac{1}{2}$

The fraction of the **bike** that is the **seat**.



Estimating Fractions

Part 3

Sort the fraction into:

Less than $\frac{1}{4}$

More than $\frac{1}{4}$ less than $\frac{1}{2}$

More than $\frac{1}{2}$

The fraction of the **bike** that is **metal**.



Estimating Fractions

Part 3

Sort the fraction into:

Less than $\frac{1}{4}$

More than $\frac{1}{4}$ less than $\frac{1}{2}$

More than $\frac{1}{2}$

The fraction of the **bike** that is **green**.



Fractions of a Set

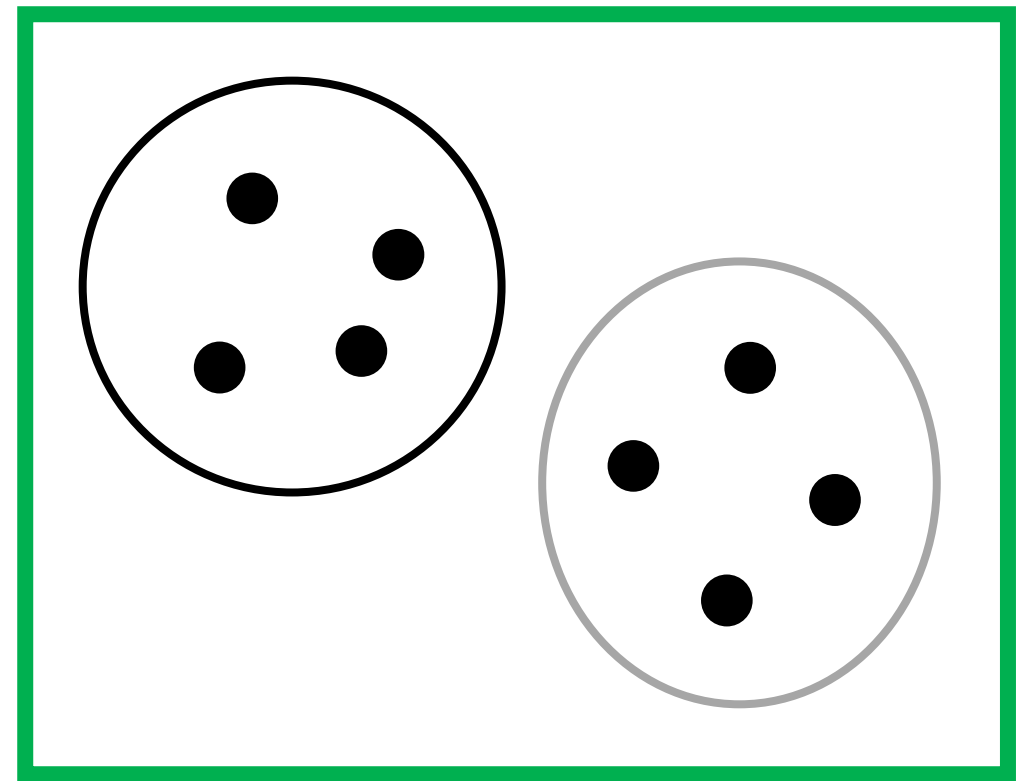
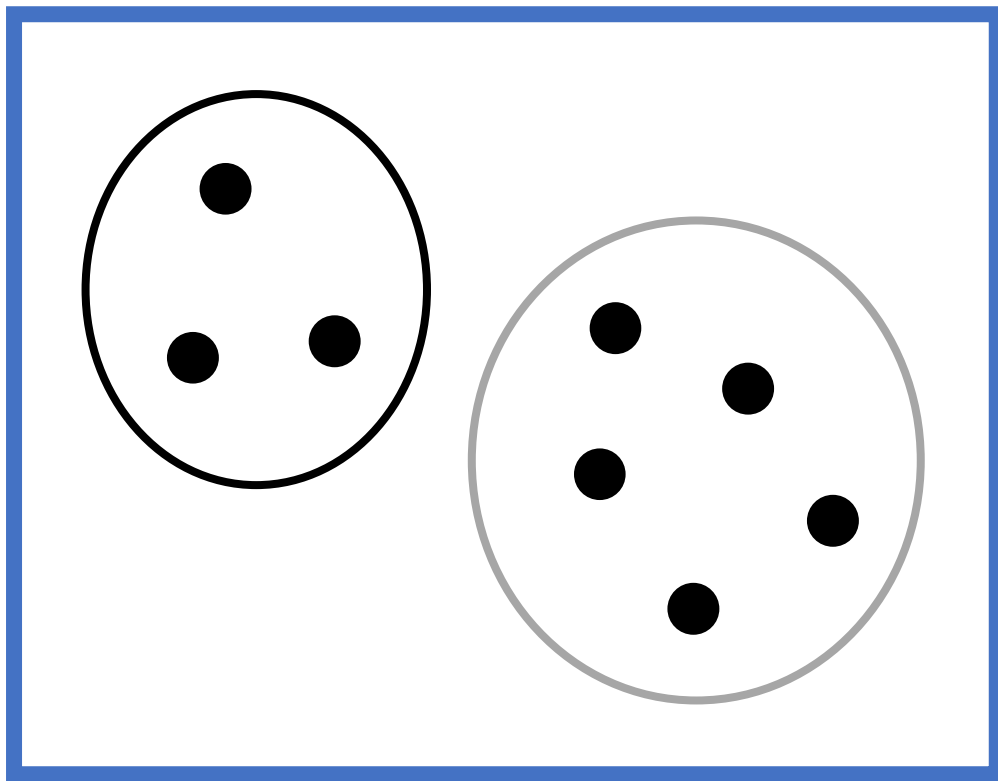
Part 1

Which picture shows $\frac{1}{2}$ of 8?

Fractions of a Set

Part 1

Which picture shows $\frac{1}{2}$ of 8?

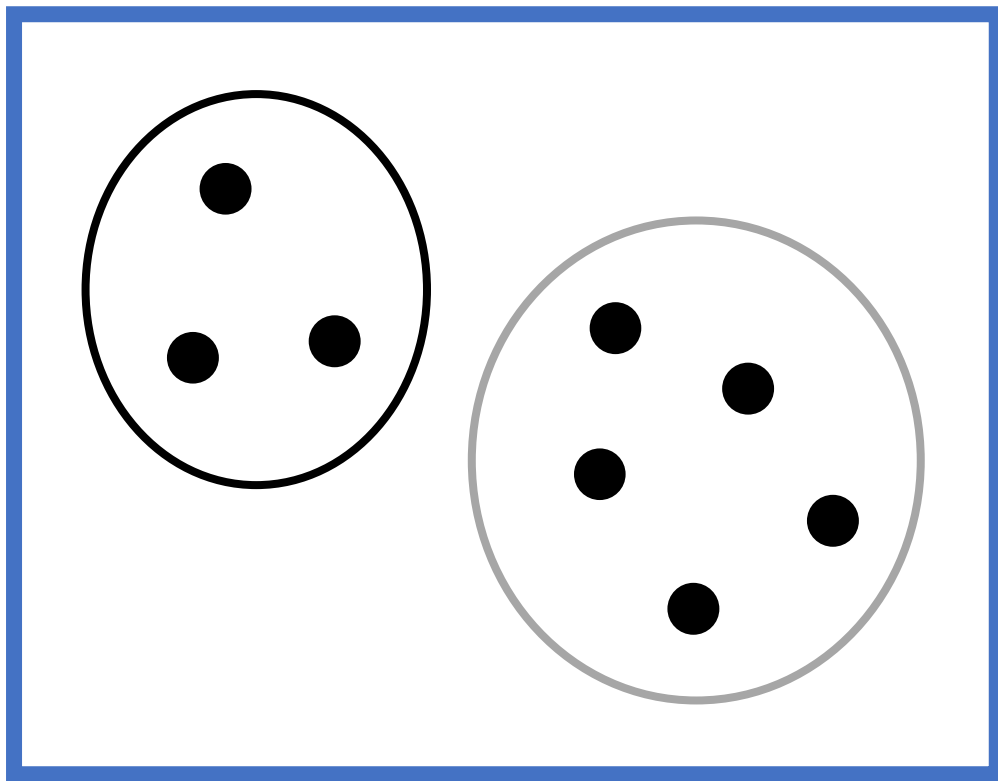


Fractions of a Set

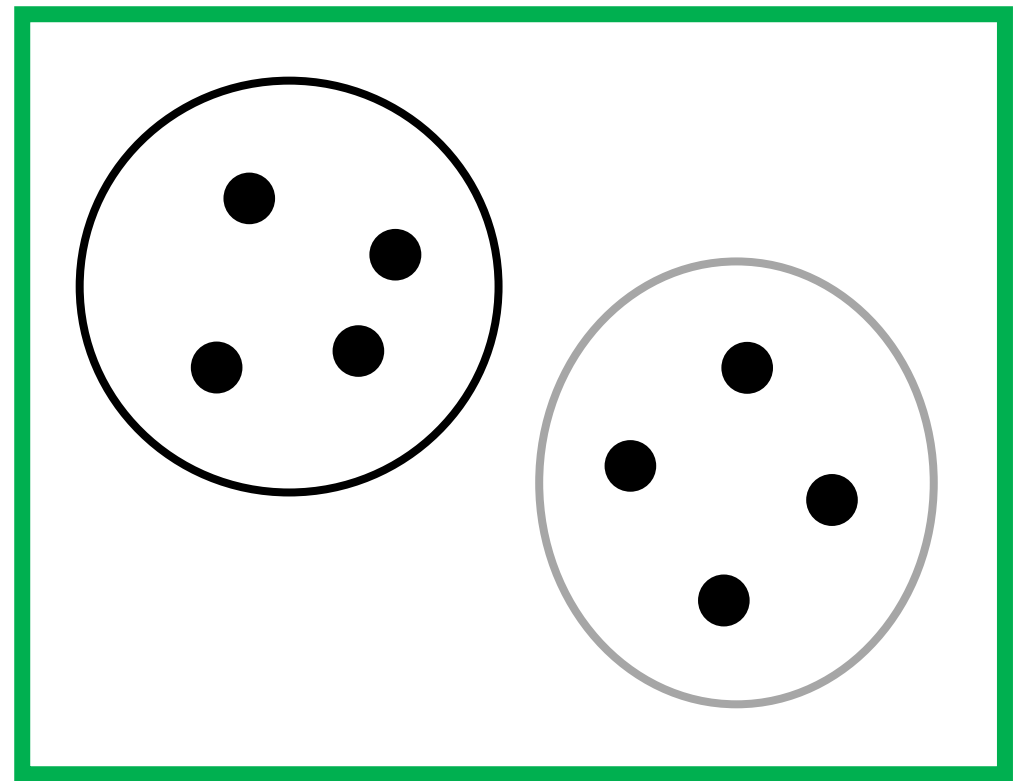
Part 1

Which picture shows $\frac{1}{2}$ of 8?

x



✓



Fractions of a Set

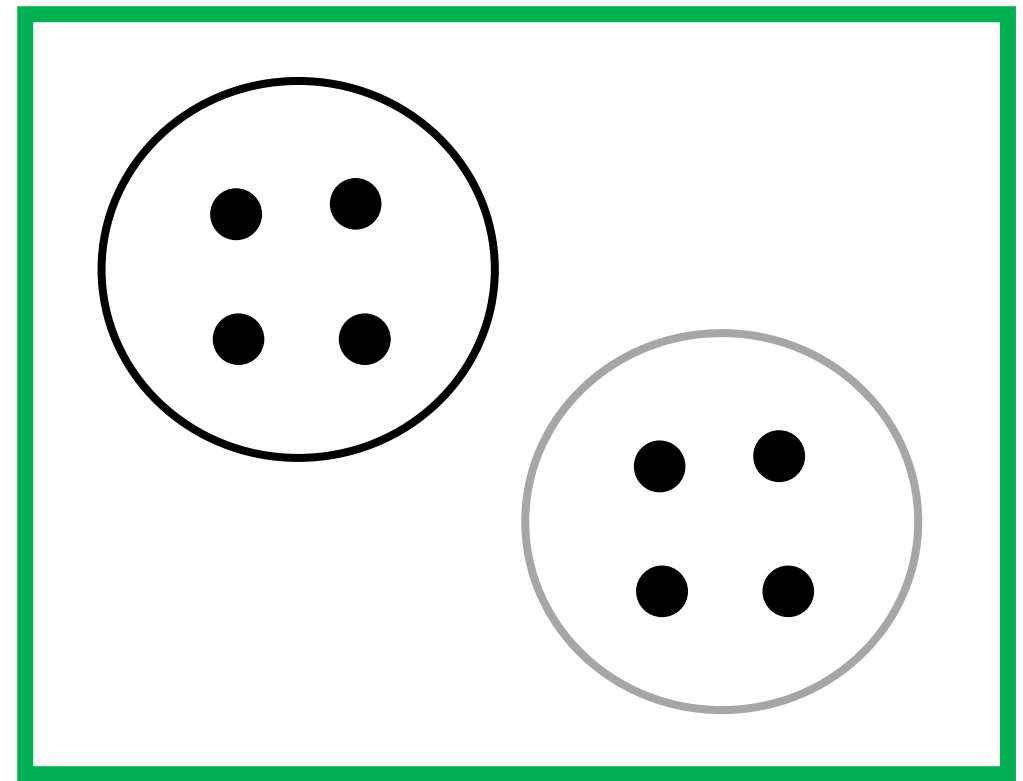
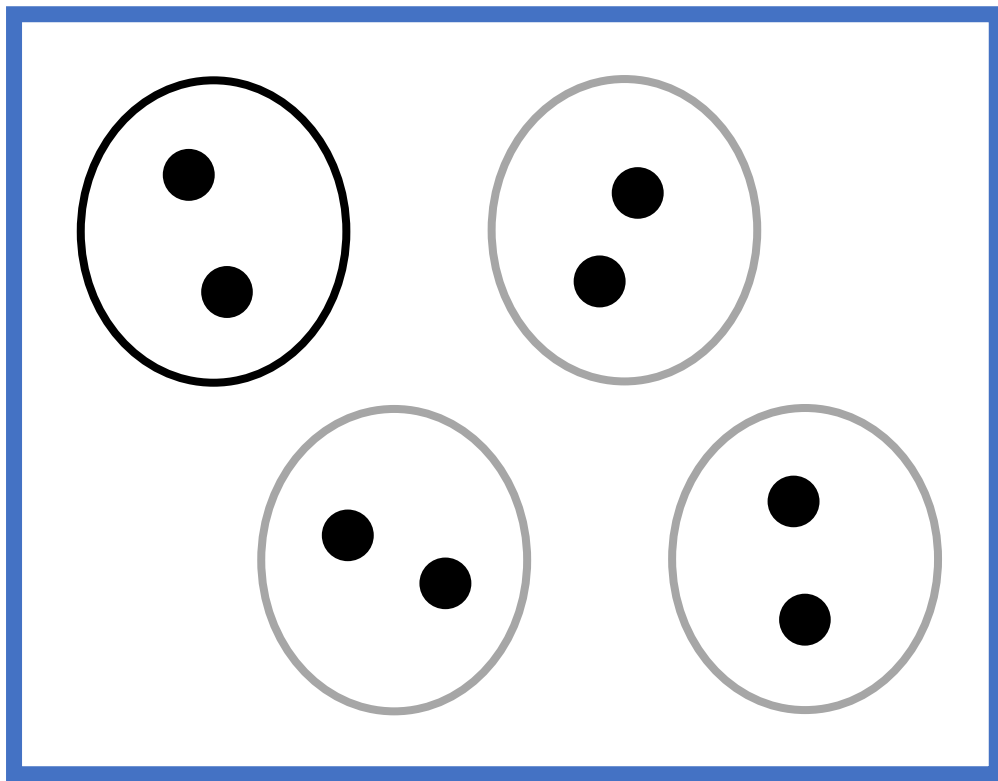
Part 1

Which picture shows $\frac{1}{4}$ of 8?

Fractions of a Set

Part 1

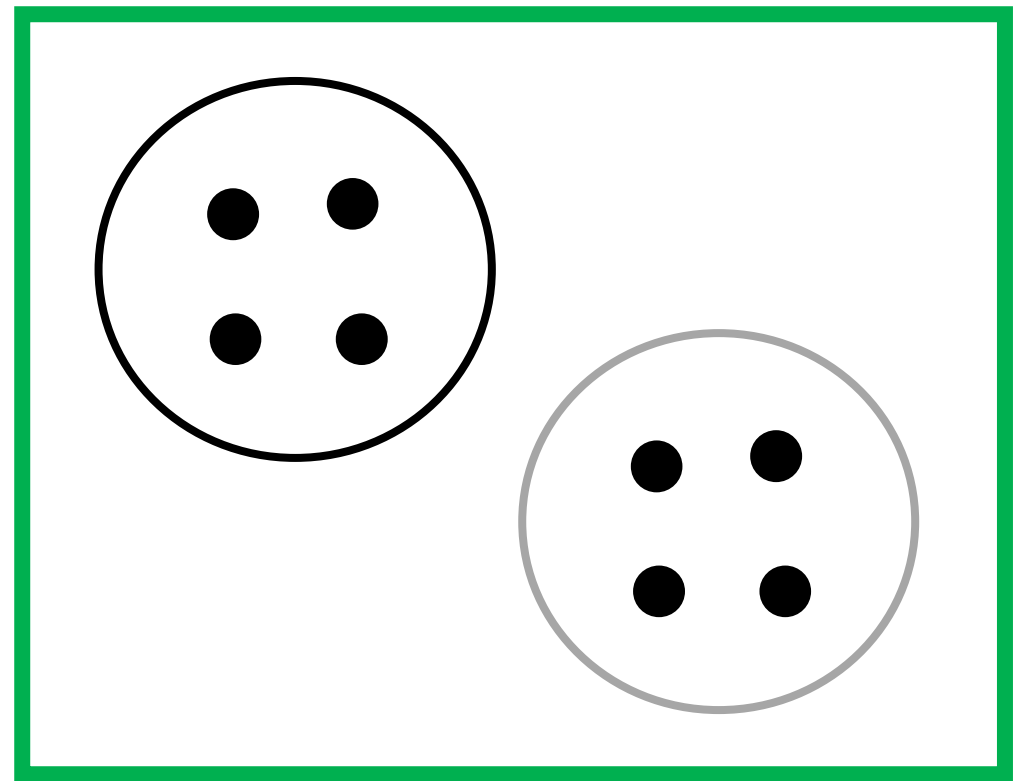
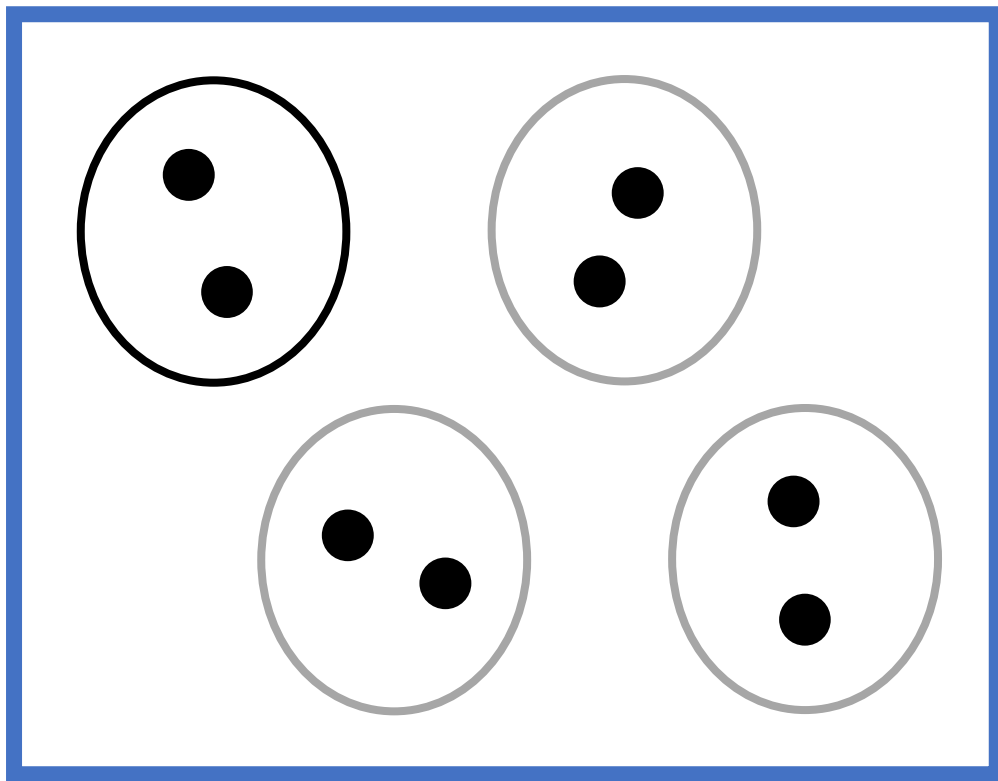
Which picture shows $\frac{1}{4}$ of 8?



Fractions of a Set

Part 1

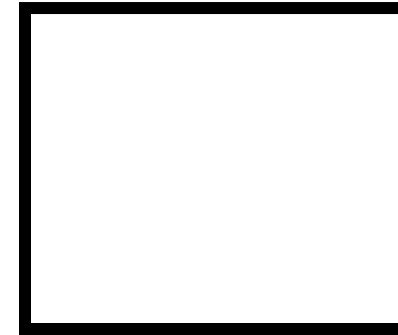
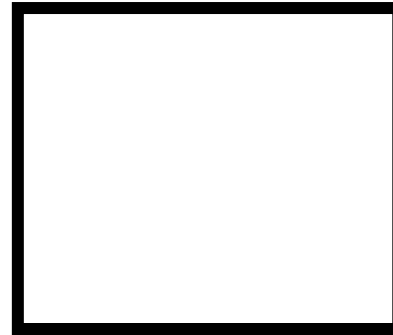
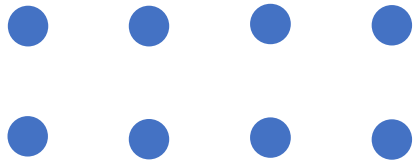
Which picture shows $\frac{1}{4}$ of 8?



Fractions of a Set

Part 2

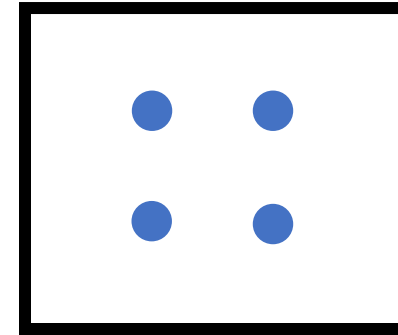
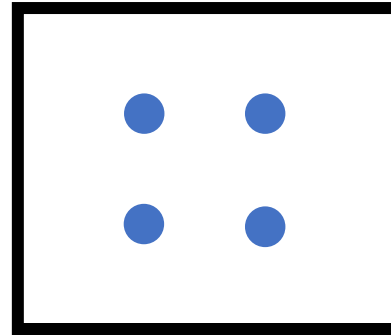
Can 8 be split into $\frac{1}{2}$?



Fractions of a Set

Part 2

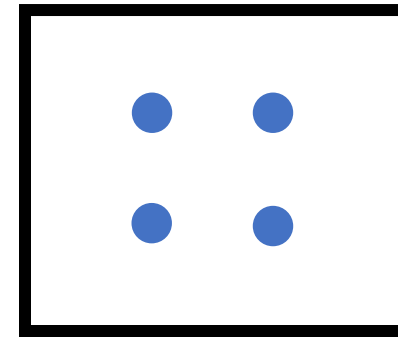
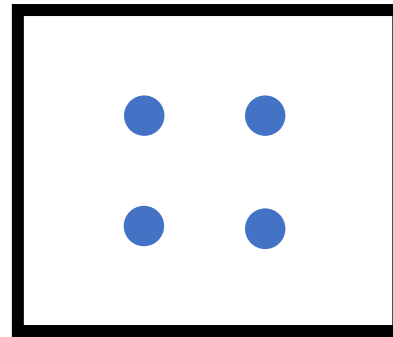
Can 8 be split into $\frac{1}{2}$?



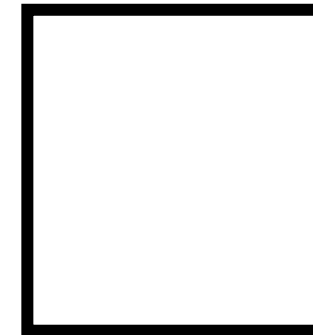
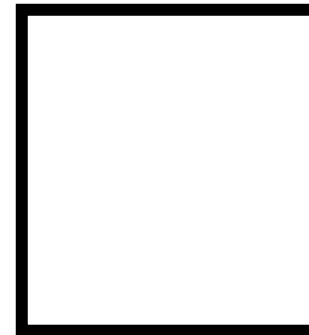
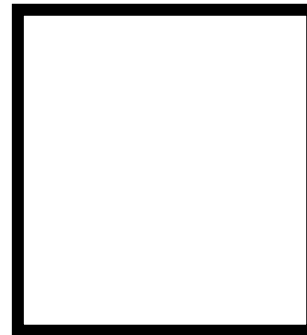
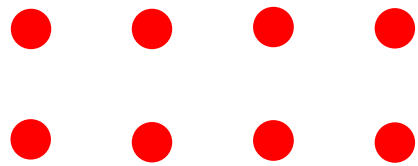
Fractions of a Set

Part 2

Can 8 be split into $\frac{1}{2}$?



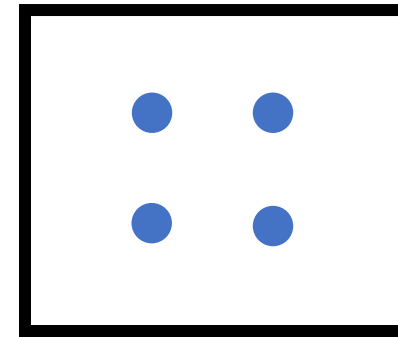
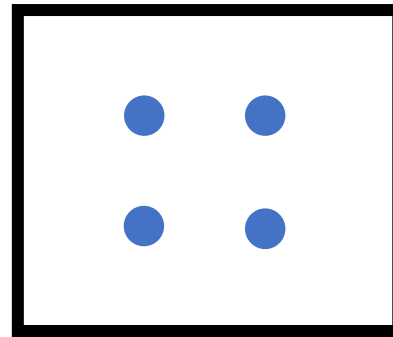
Can 8 be split into $\frac{1}{3}$?



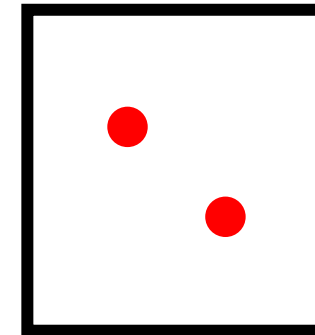
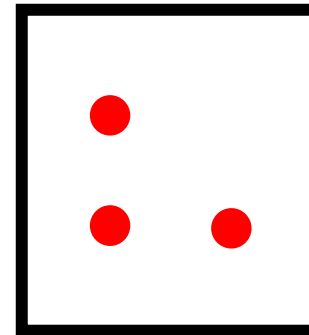
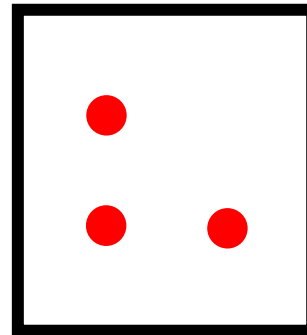
Fractions of a Set

Part 2

Can 8 be split into $\frac{1}{2}$?



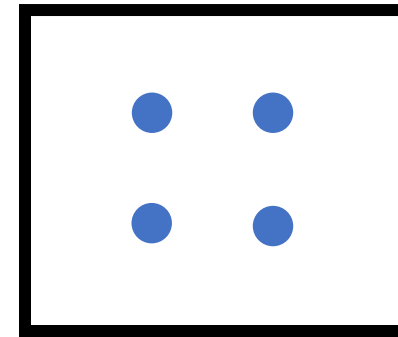
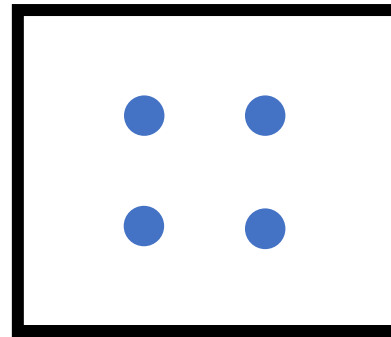
Can 8 be split into $\frac{1}{3}$?



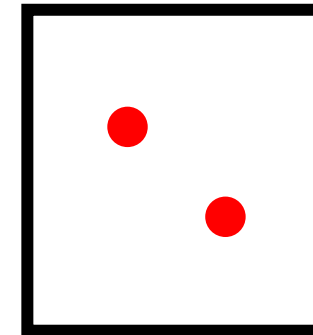
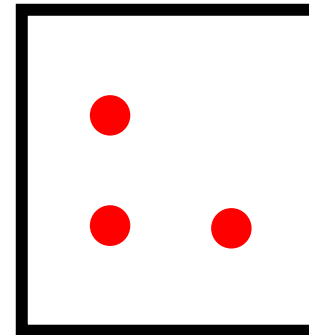
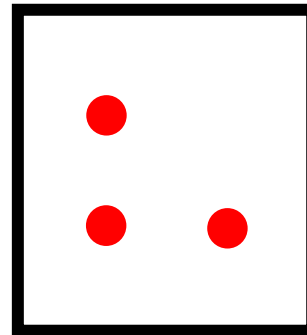
Fractions of a Set

Part 2

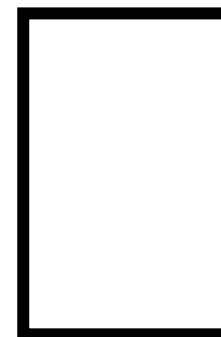
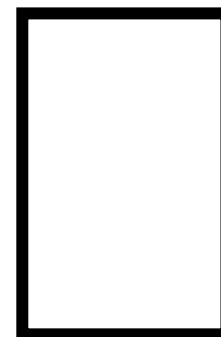
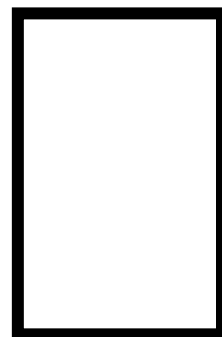
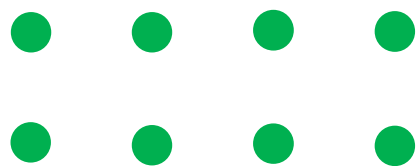
Can 8 be split into $\frac{1}{2}$?



Can 8 be split into $\frac{1}{3}$?



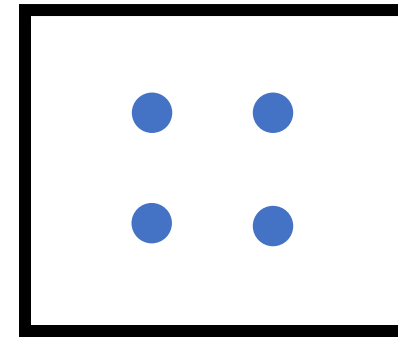
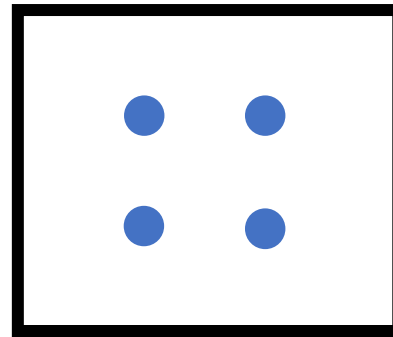
Can 8 be split into $\frac{1}{4}$?



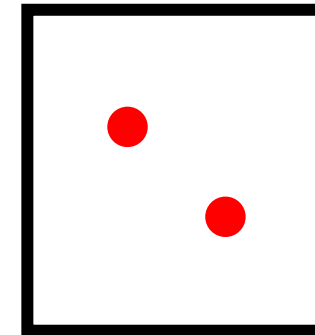
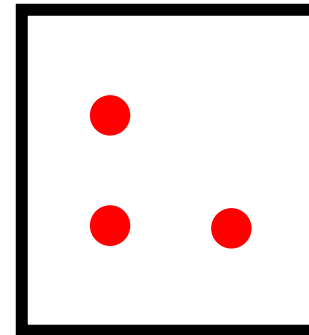
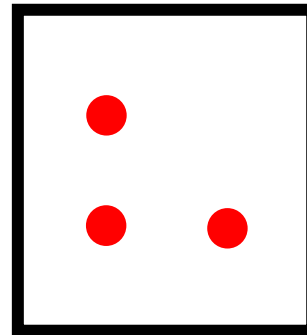
Fractions of a Set

Part 2

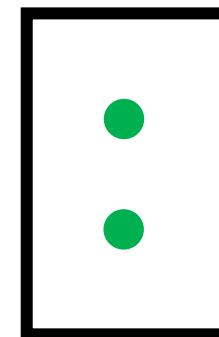
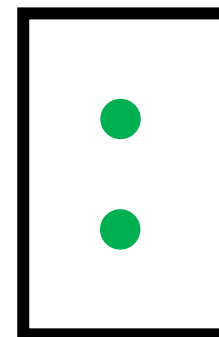
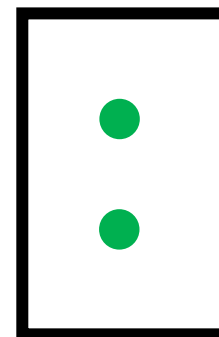
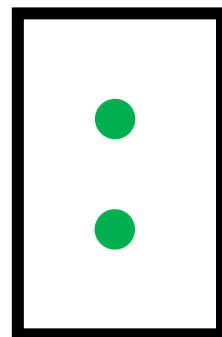
Can 8 be split into $\frac{1}{2}$?



Can 8 be split into $\frac{1}{3}$?



Can 8 be split into $\frac{1}{4}$?



Fractions of a Set

Part 3

My number **can** be split into equal groups of $\frac{1}{3}$

My number **cannot** be split into equal groups of $\frac{1}{2}$

My number is **less than 10**.

Fractions of a Set

Part 3

My number **can** be split into equal groups of $\frac{1}{3}$

My number **cannot** be split into equal groups of $\frac{1}{2}$

My number is **less than 10**.



Could it be 6?

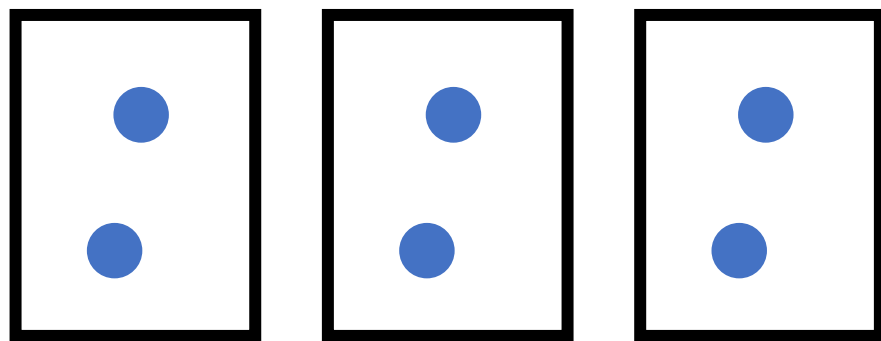
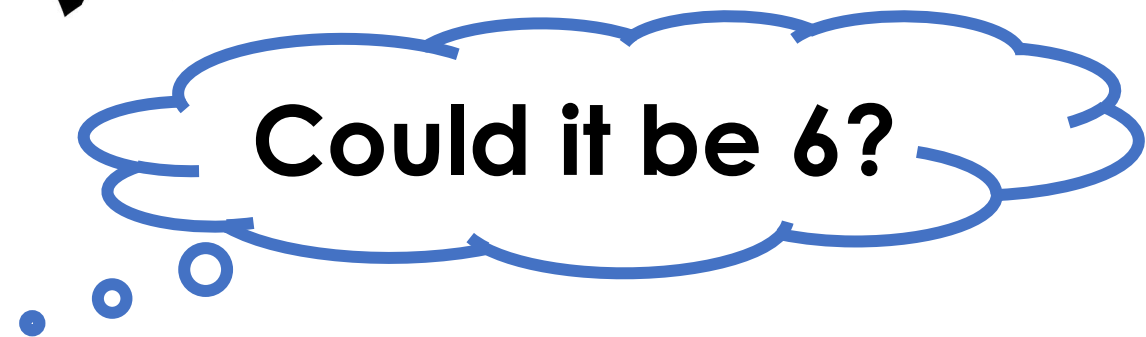
Fractions of a Set

Part 3

My number **can** be split into equal groups of $\frac{1}{3}$ ✓

My number **cannot** be split into equal groups of $\frac{1}{2}$

My number is **less than 10**. ✓



6 **can** be split into equal groups of $\frac{1}{3}$

Fractions of a Set

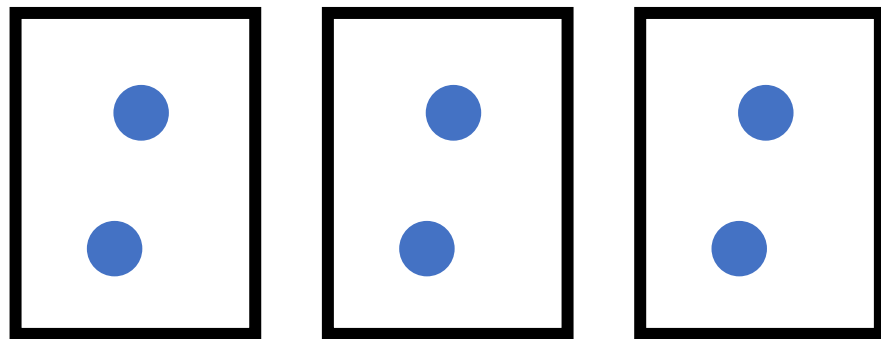
Part 3

My number **can** be split into equal groups of $\frac{1}{3}$ ✓

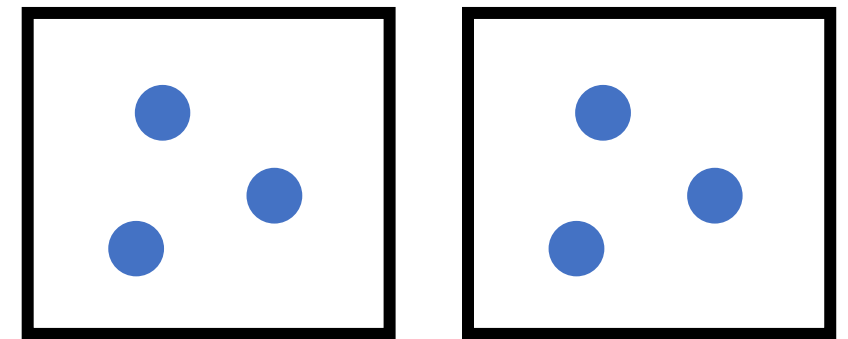
My number **cannot** be split into equal groups of $\frac{1}{2}$ ✗

My number is **less than 10**. ✓

Could it be 6?



6 **can** be split into equal groups of $\frac{1}{3}$



6 **can** be split into equal groups of $\frac{1}{2}$

Fractions of a Set

Part 3

My number **can** be split into equal groups of $\frac{1}{3}$

My number **cannot** be split into equal groups of $\frac{1}{2}$

My number is **less than 10**.



Could it be 9?

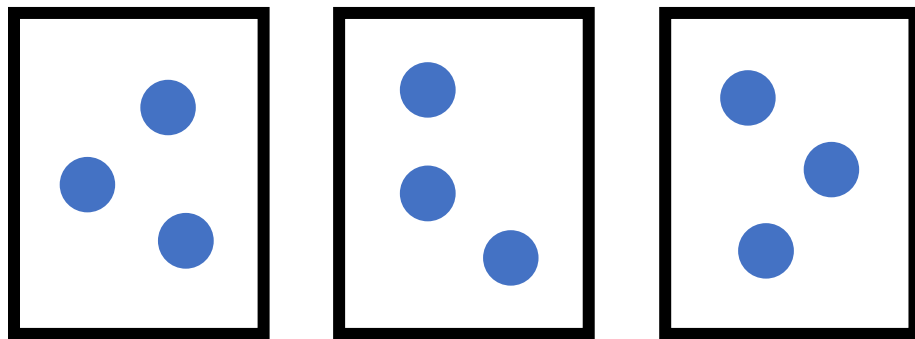
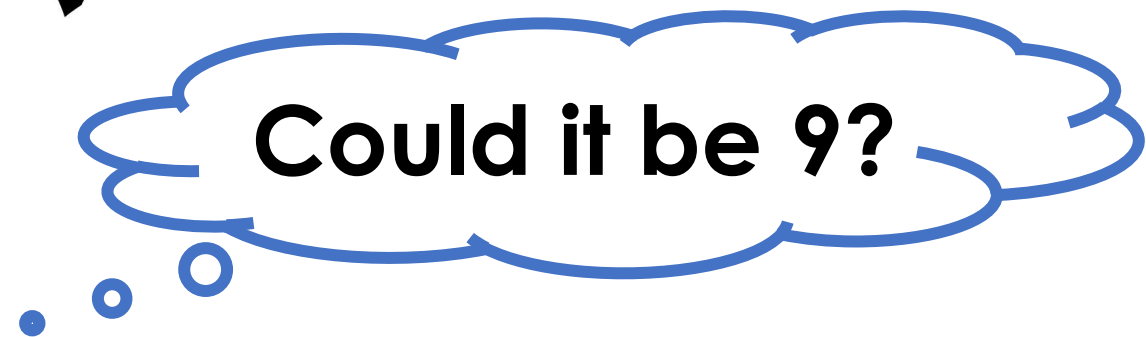
Fractions of a Set

Part 3

My number **can** be split into equal groups of $\frac{1}{3}$ ✓

My number **cannot** be split into equal groups of $\frac{1}{2}$

My number is **less than 10**. ✓



9 **can** be split into equal groups of $\frac{1}{3}$

Fractions of a Set

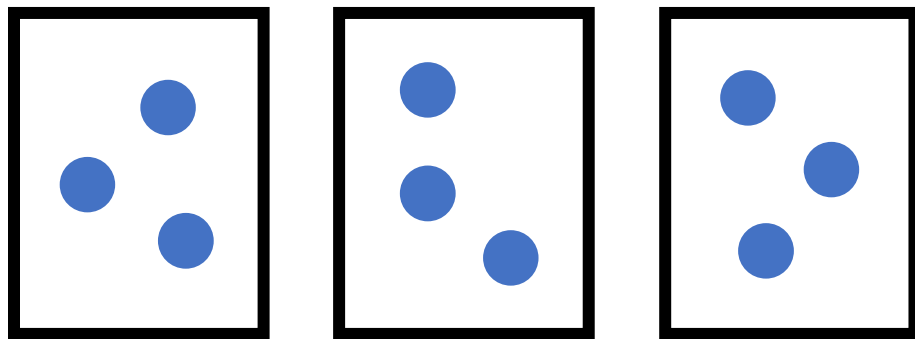
Part 3

My number **can** be split into equal groups of $\frac{1}{3}$ ✓

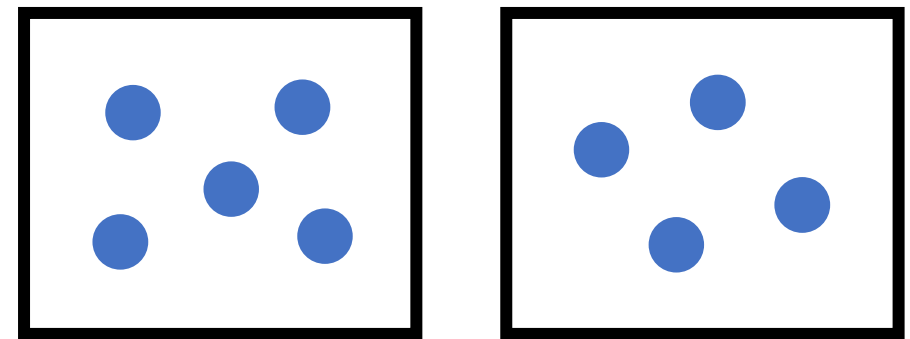
My number **cannot** be split into equal groups of $\frac{1}{2}$ ✓

My number is **less than 10**. ✓

Could it be 9?



9 **can** be split into equal groups of $\frac{1}{3}$

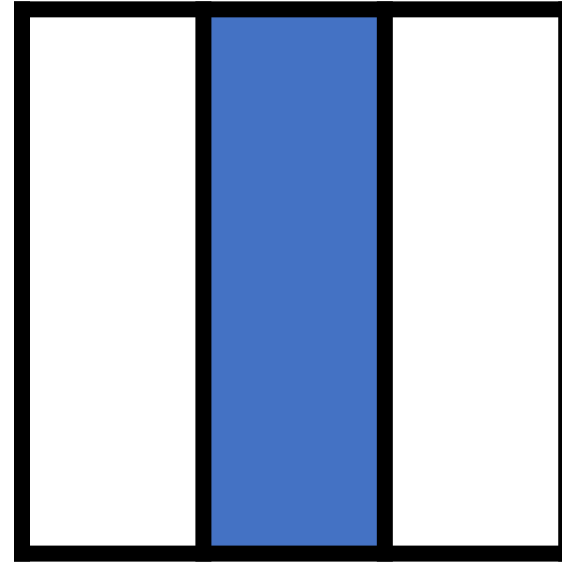


9 **cannot** be split into equal groups of $\frac{1}{2}$

Fraction Pictures

Part 1

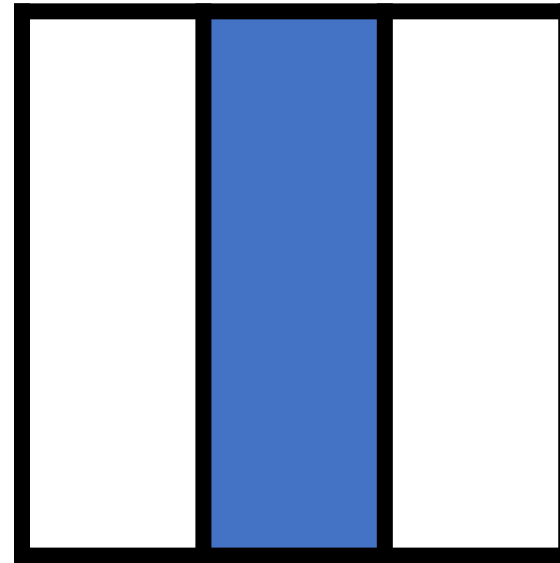
This picture shows $\frac{1}{3}$



Fraction Pictures

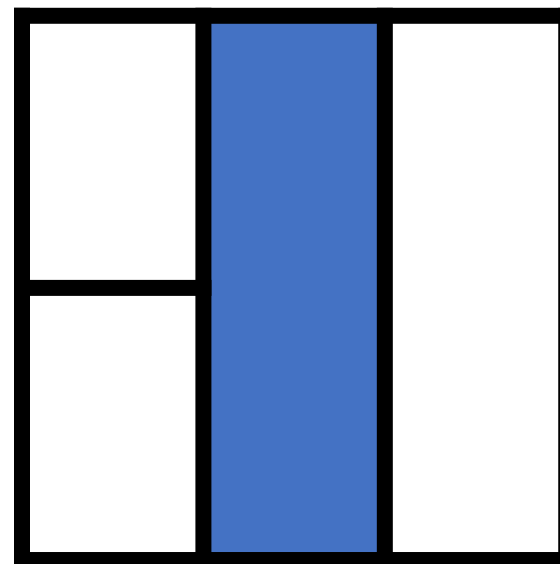
Part 1

This picture shows $\frac{1}{3}$



Does this picture
show $\frac{1}{3}$?

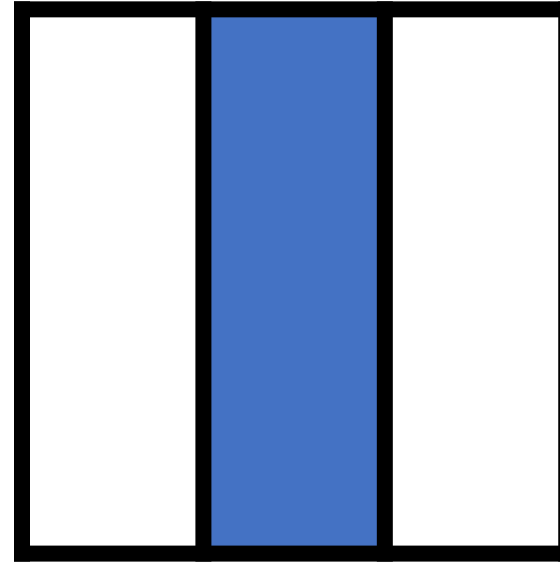
✓ or ✗



Fraction Pictures

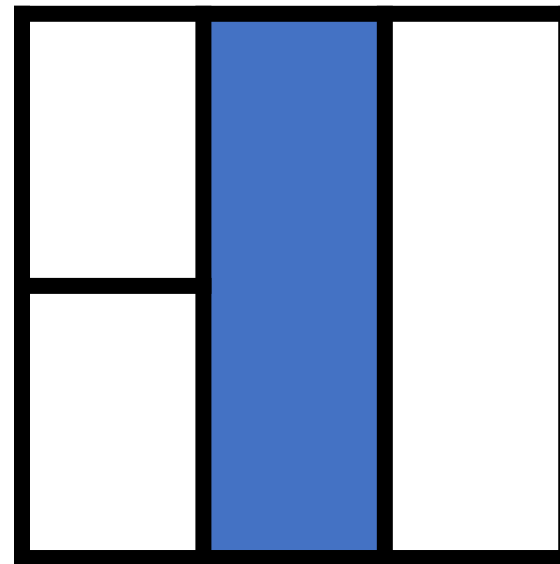
Part 1

This picture shows $\frac{1}{3}$



Does this picture show $\frac{1}{3}$?

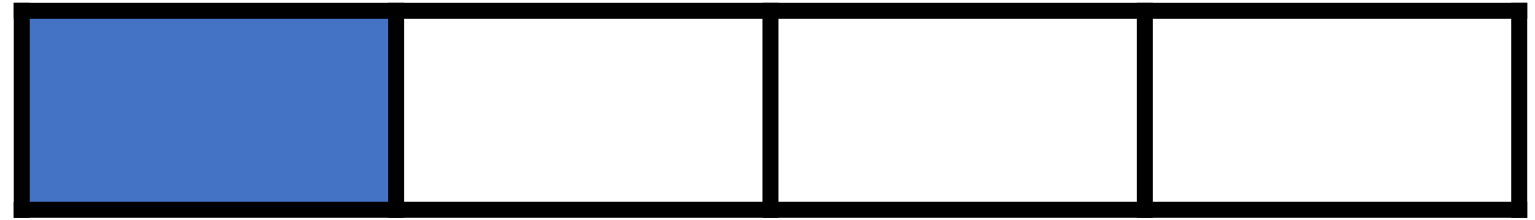
✓ or ✗



Fraction Pictures

Part 1

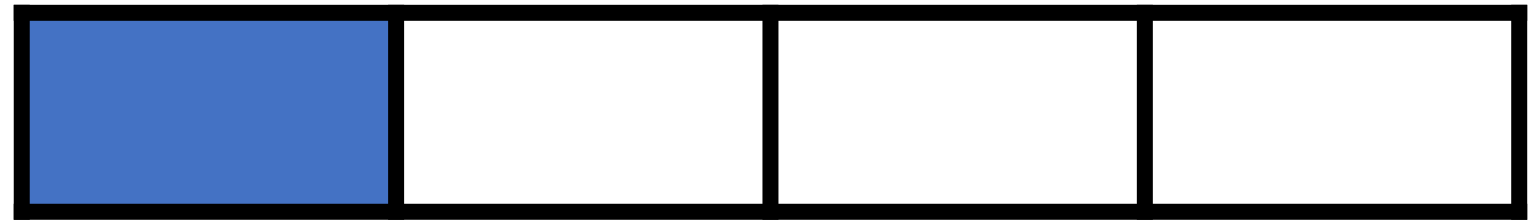
This picture
shows $\frac{1}{4}$



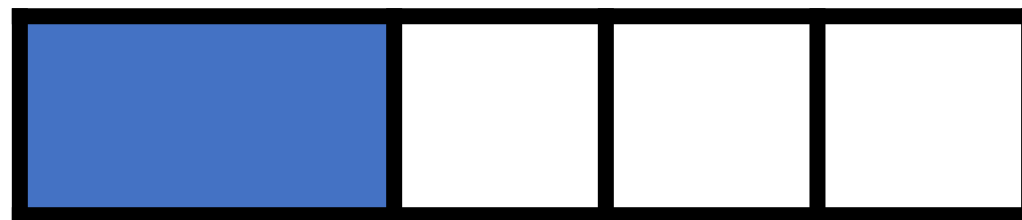
Fraction Pictures

Part 1

This picture shows $\frac{1}{4}$



Does this picture show $\frac{1}{4}$?

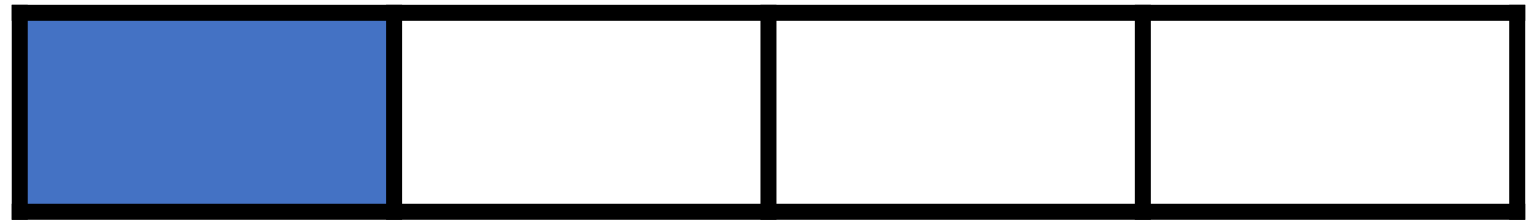


✓ or ✗

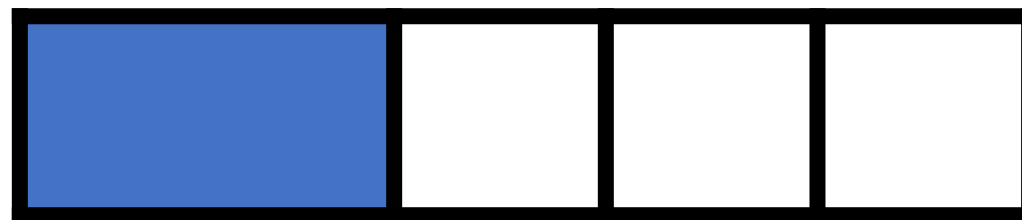
Fraction Pictures

Part 1

This picture shows $\frac{1}{4}$



Does this picture show $\frac{1}{4}$?



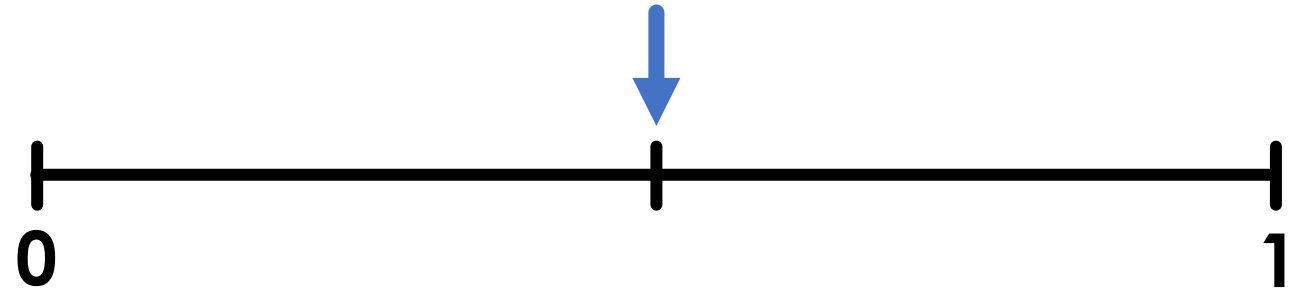
x

✓ or **x**

Fraction Pictures

Part 1

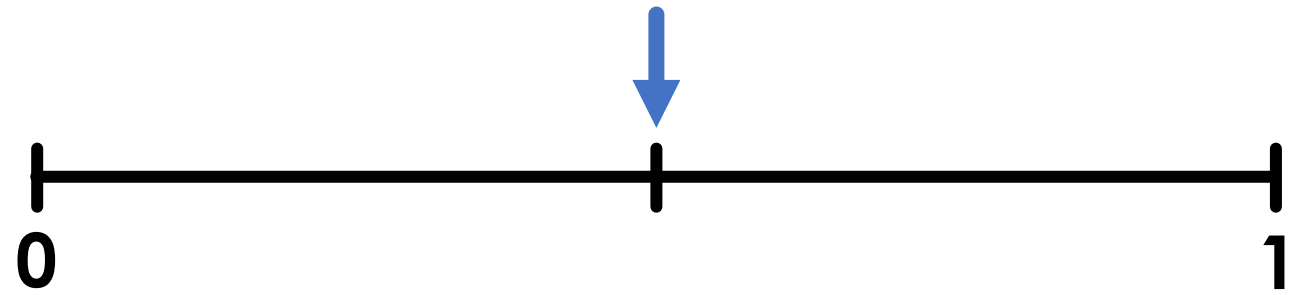
This picture
shows $\frac{1}{2}$



Fraction Pictures

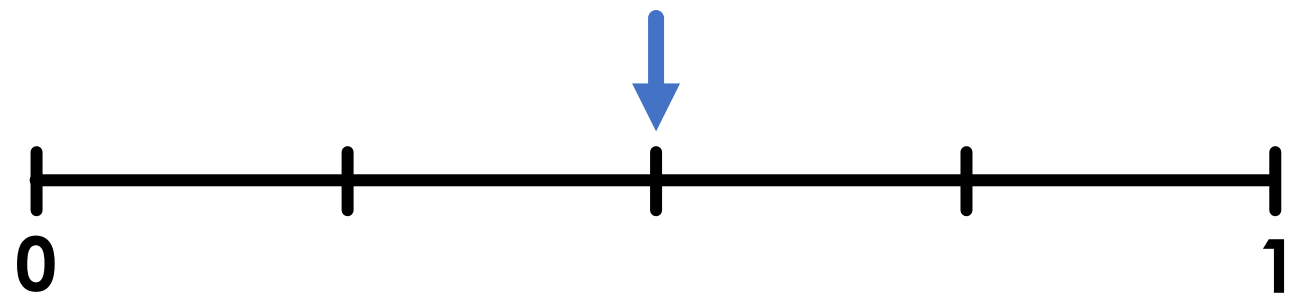
Part 1

This picture shows $\frac{1}{2}$



Does this picture show $\frac{1}{2}$?

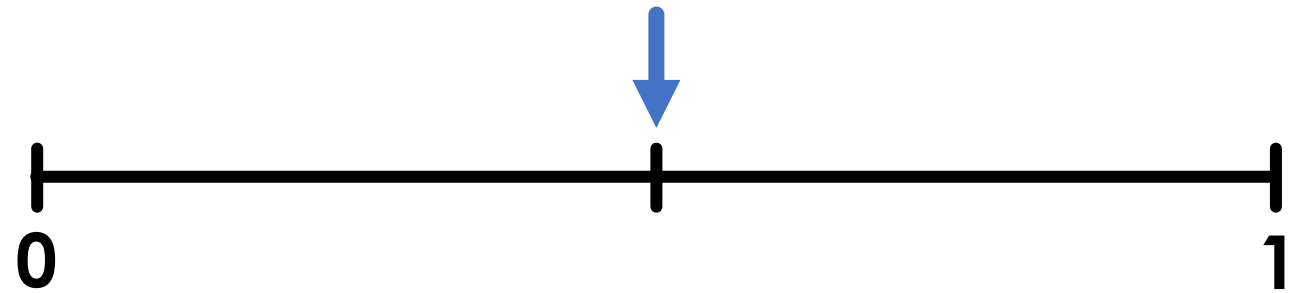
✓ or ✗



Fraction Pictures

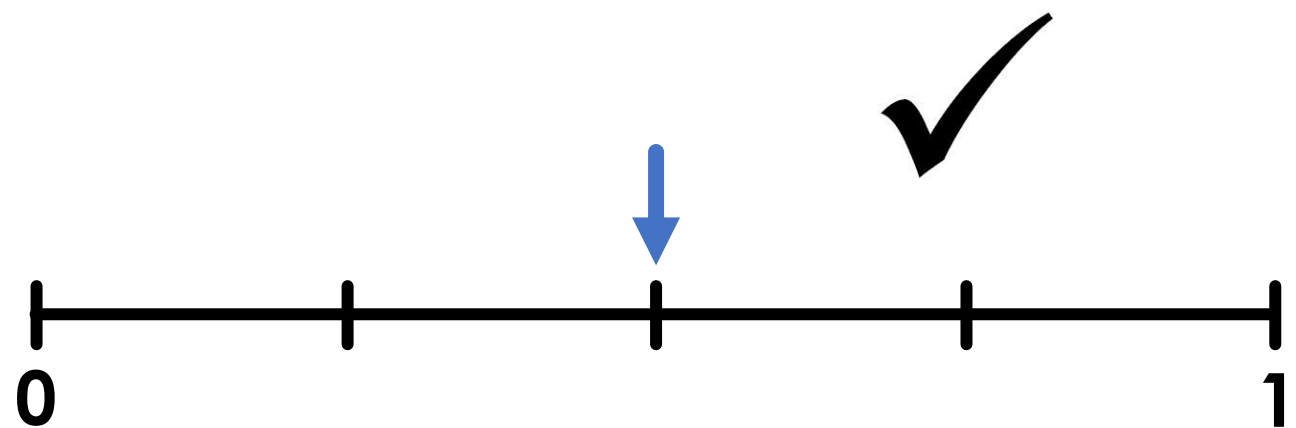
Part 1

This picture shows $\frac{1}{2}$



Does this picture show $\frac{1}{2}$?

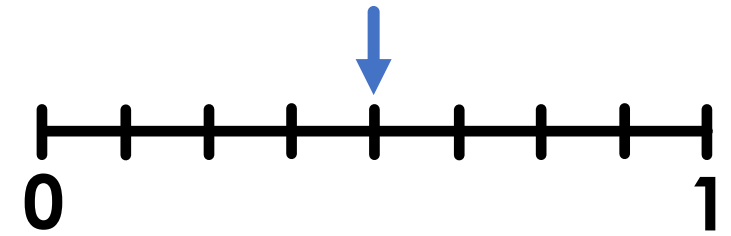
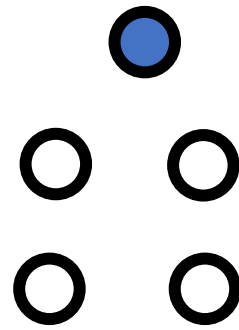
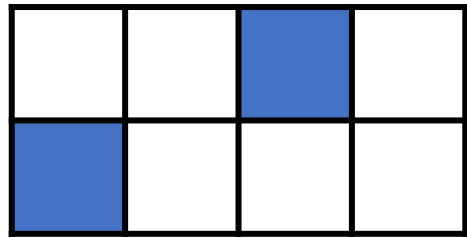
✓ or ✗



Fraction Pictures

Part 2

$\frac{1}{4}$ or $\frac{1}{2}$ or trash?

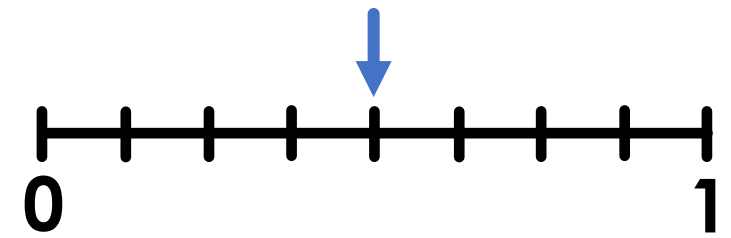
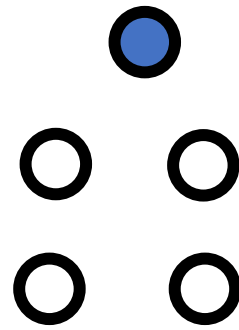


$\frac{1}{4}$	$\frac{1}{2}$	trash

Fraction Pictures

Part 2

$\frac{1}{4}$ or $\frac{1}{2}$ or trash?

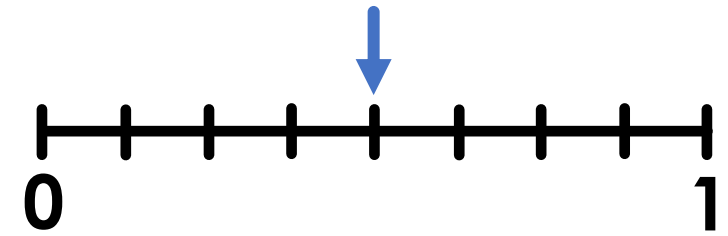


$\frac{1}{4}$	$\frac{1}{2}$	trash

Fraction Pictures

Part 2

$\frac{1}{4}$ or $\frac{1}{2}$ or trash?



$\frac{1}{4}$	$\frac{1}{2}$	trash

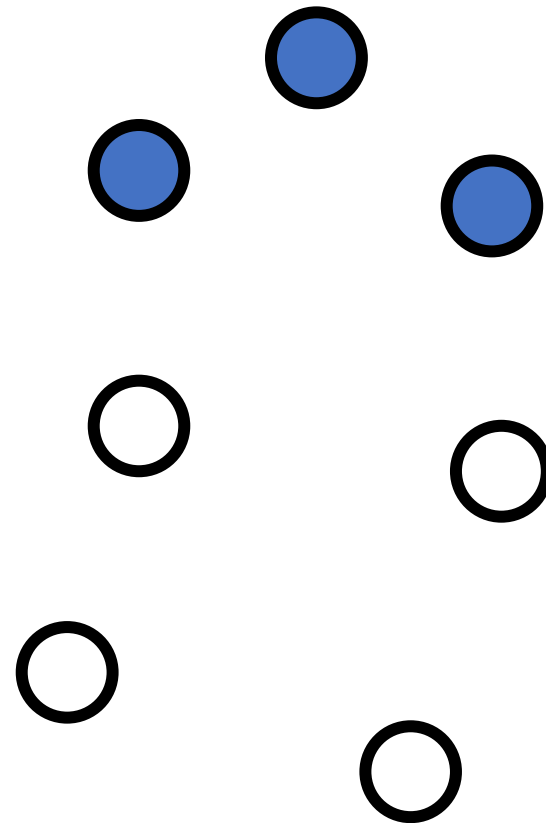
Fraction Pictures

Part 2

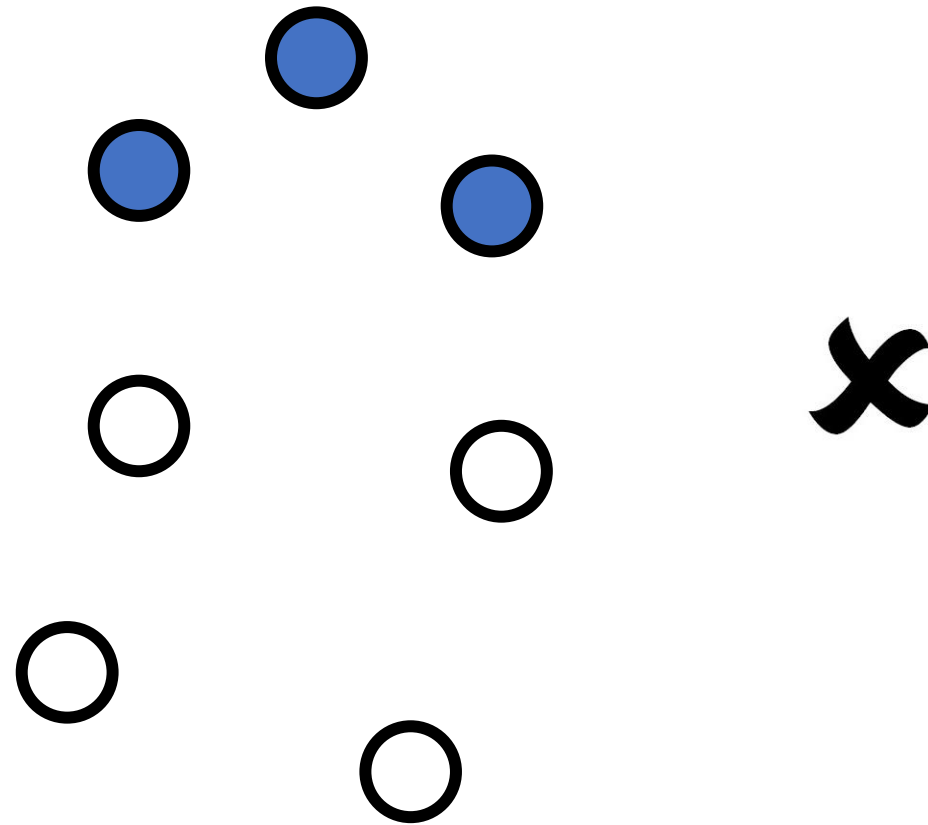
$\frac{1}{4}$ or $\frac{1}{2}$ or trash?

$\frac{1}{4}$	$\frac{1}{2}$	trash

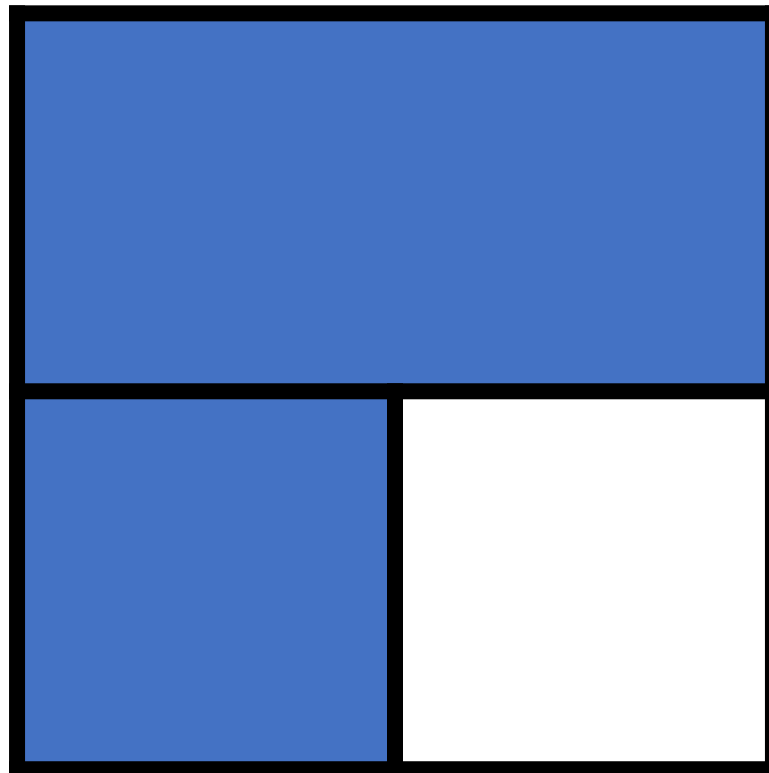
Are $\frac{3}{4}$ of the dots blue?



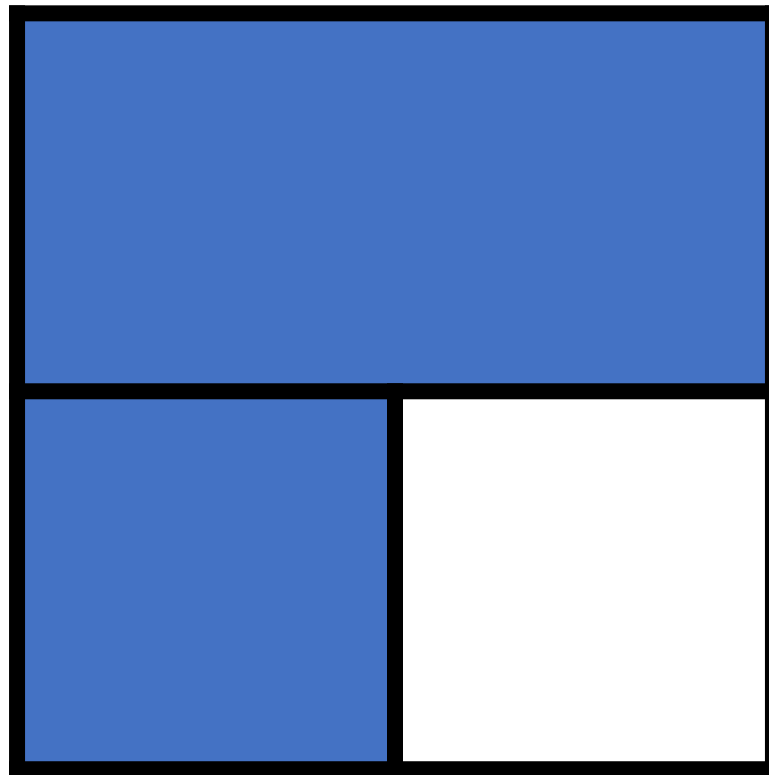
Are $\frac{3}{4}$ of the dots blue?



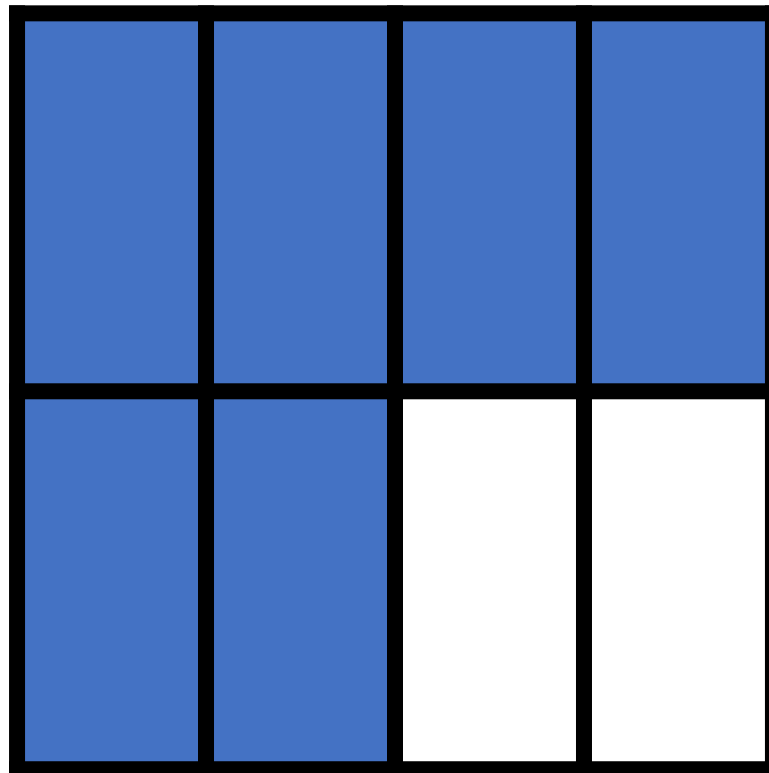
Does the picture show $\frac{3}{4}$?



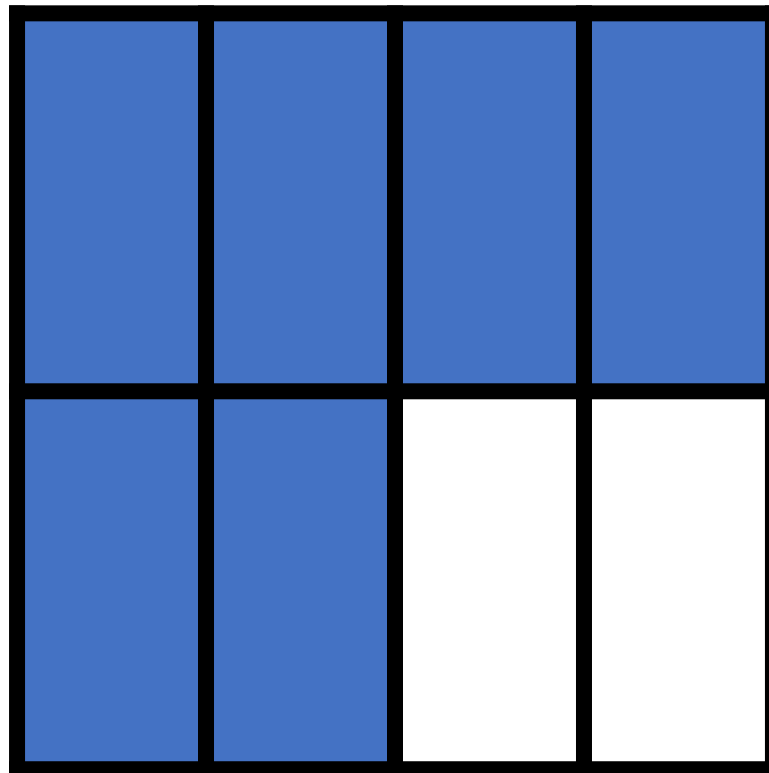
Does the picture show $\frac{3}{4}$?



Does the picture show $\frac{3}{4}$?



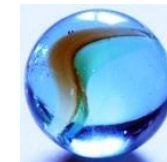
Does the picture show $\frac{3}{4}$?



Choosing Measures

Part 1

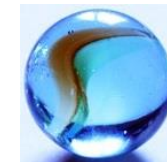
A table tennis ball is and than a marble.



Choosing Measures

Part 1

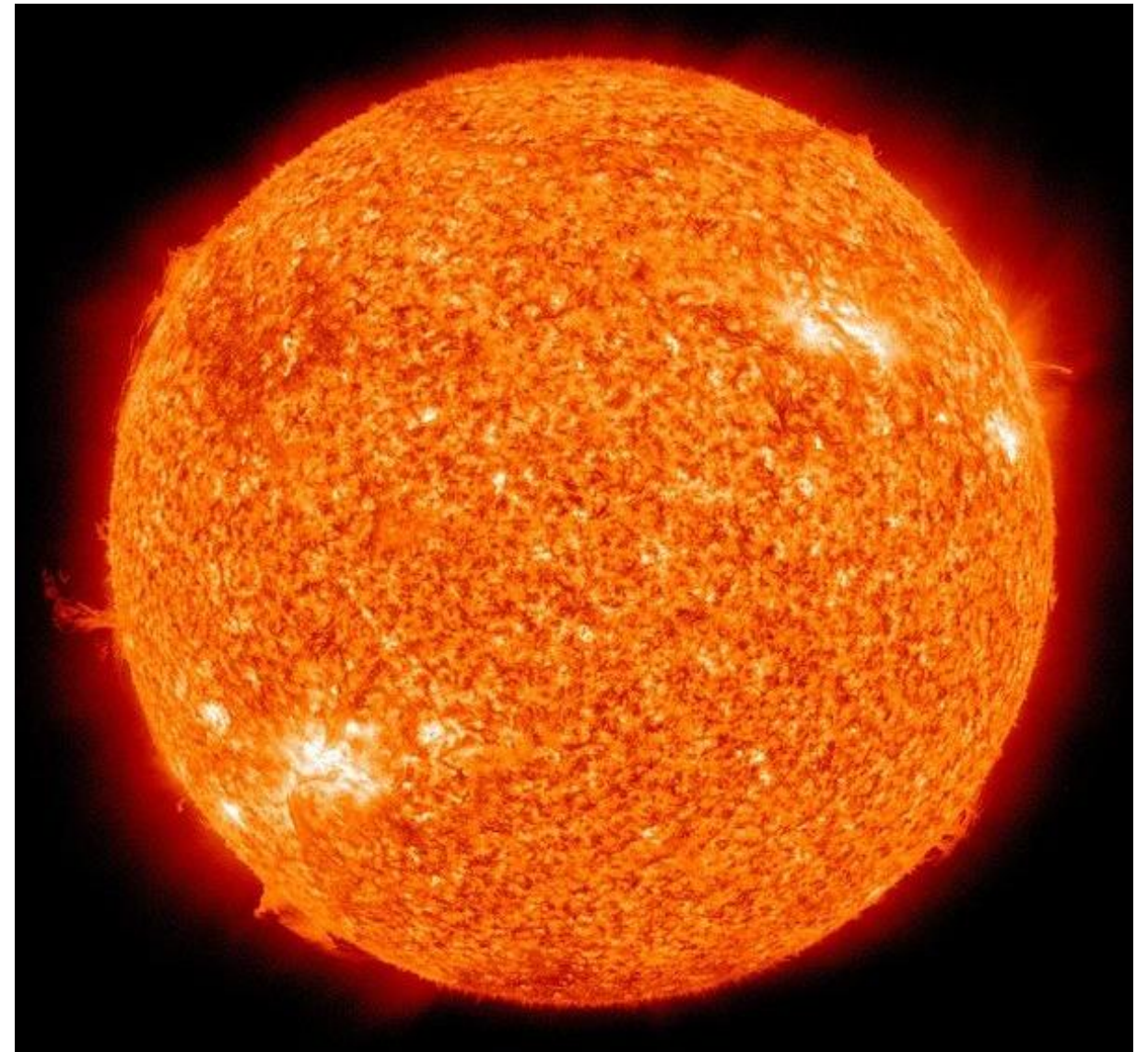
A table tennis ball is **bigger** and **lighter** than a marble.



Choosing Measures

Part 1

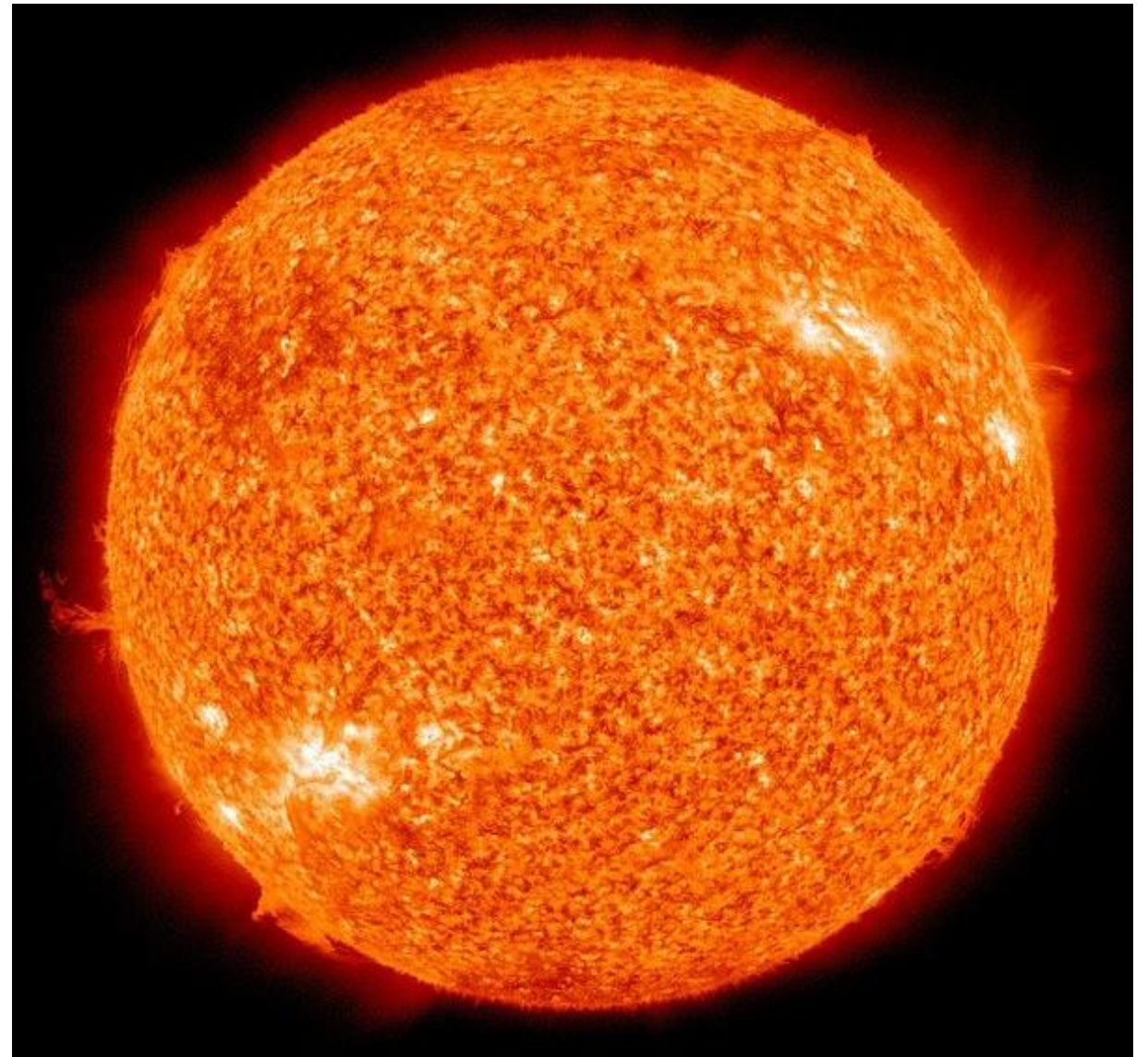
The earth is and than the sun.



Choosing Measures

Part 1

The earth is **smaller** and **colder** than the sun.



Choosing Measures

Part 2

Measure the **height of a tree** in...



Centimetres (cm)

Metres (m)

Kilograms (kg)

Choosing Measures

Part 2

Measure the **capacity** of a water bottle in...



Centimetres (cm)

Grams (g)

Litres (l)

Choosing Measures

Part 2

Measure the **weight** of a **pumpkin** in...



Kilograms (kg)

Grams (g)

Centimetres (cm)

Choosing Measures

Part 2

Measure the **length of a toenail** in...

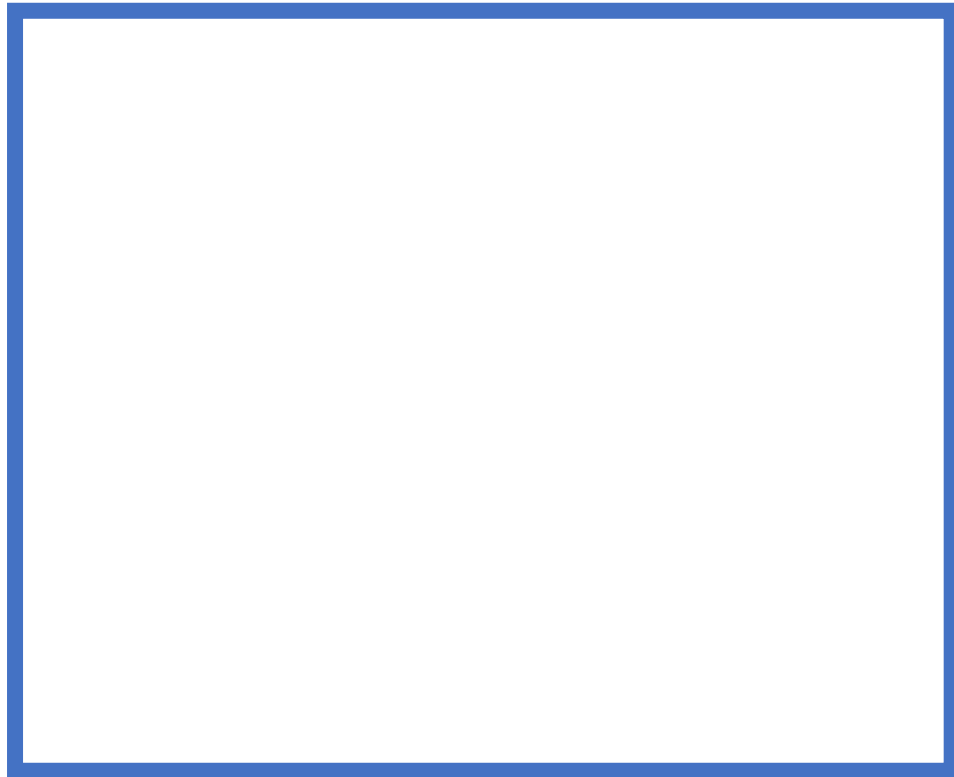


Centimetres (cm)

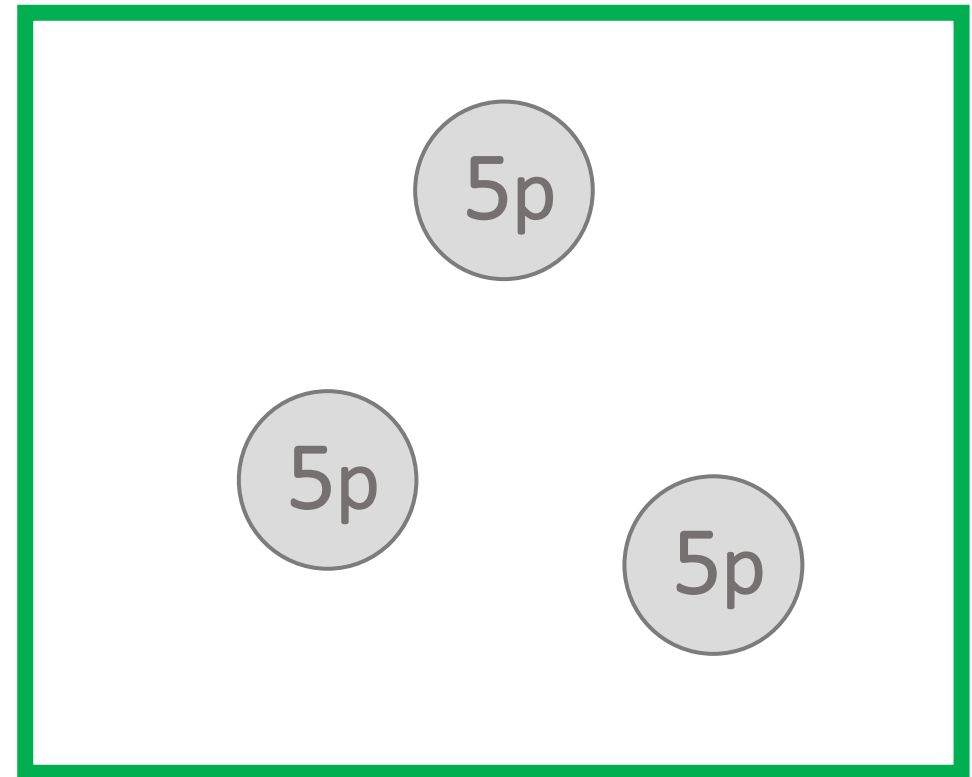
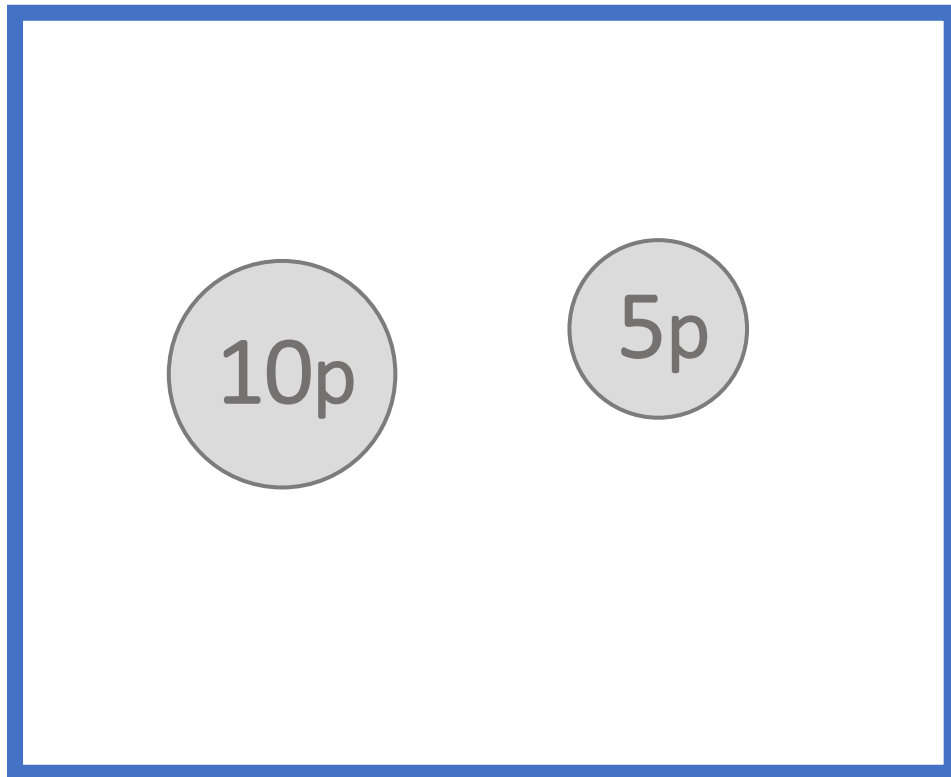
Grams (g)

Millimetres (mm)

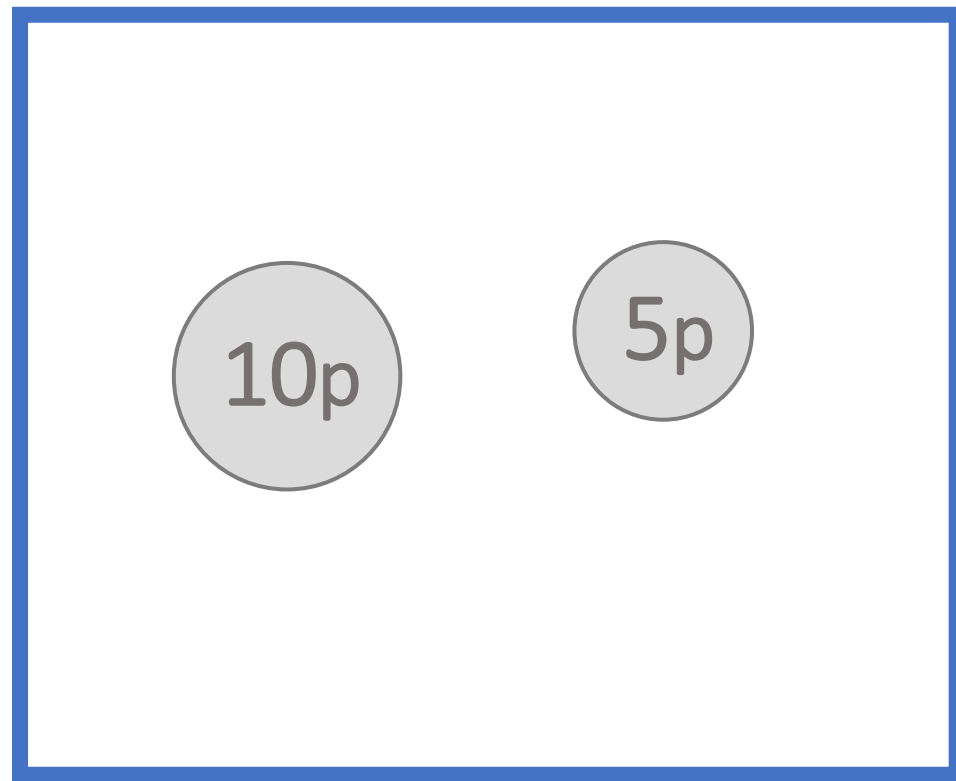
Same or Different?



Same or Different?

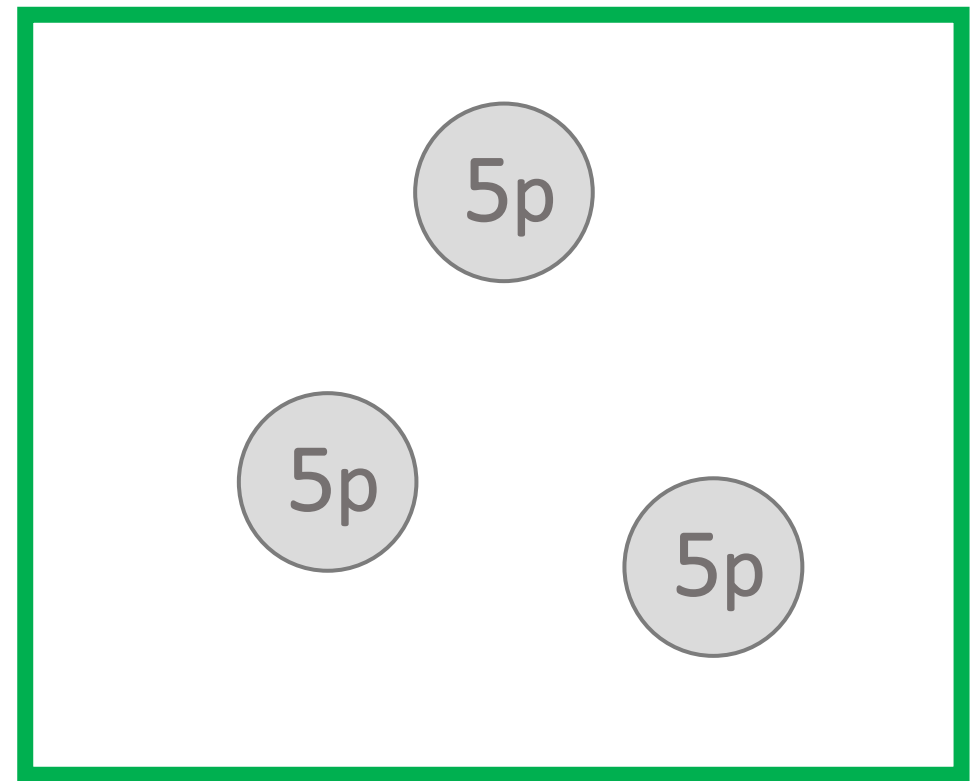


Same or Different?



15p

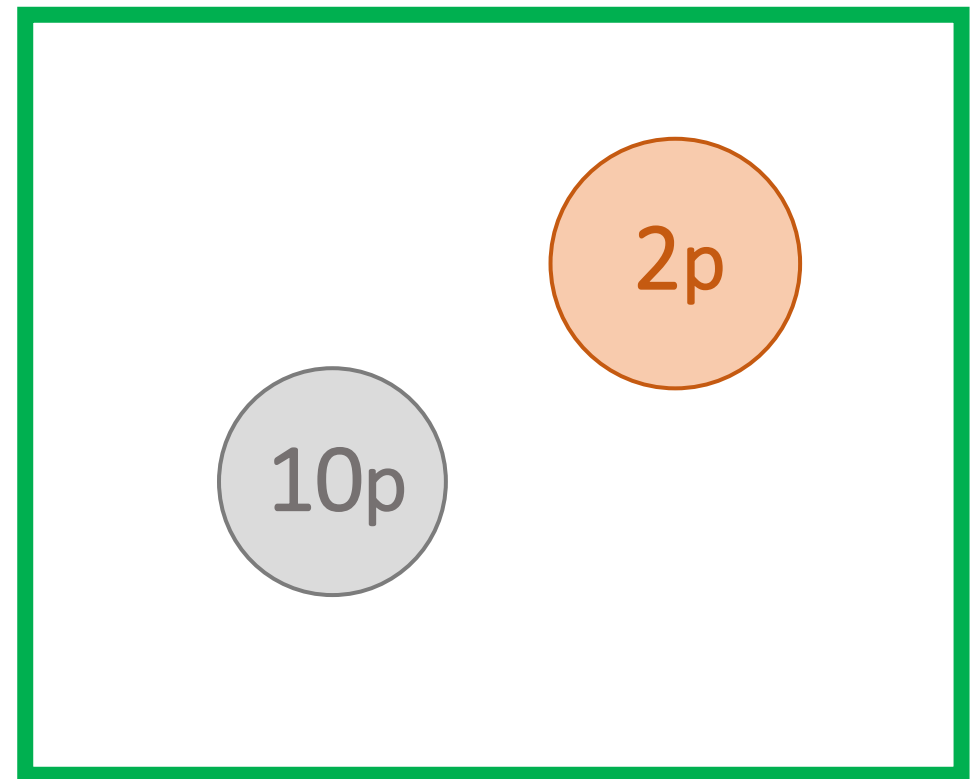
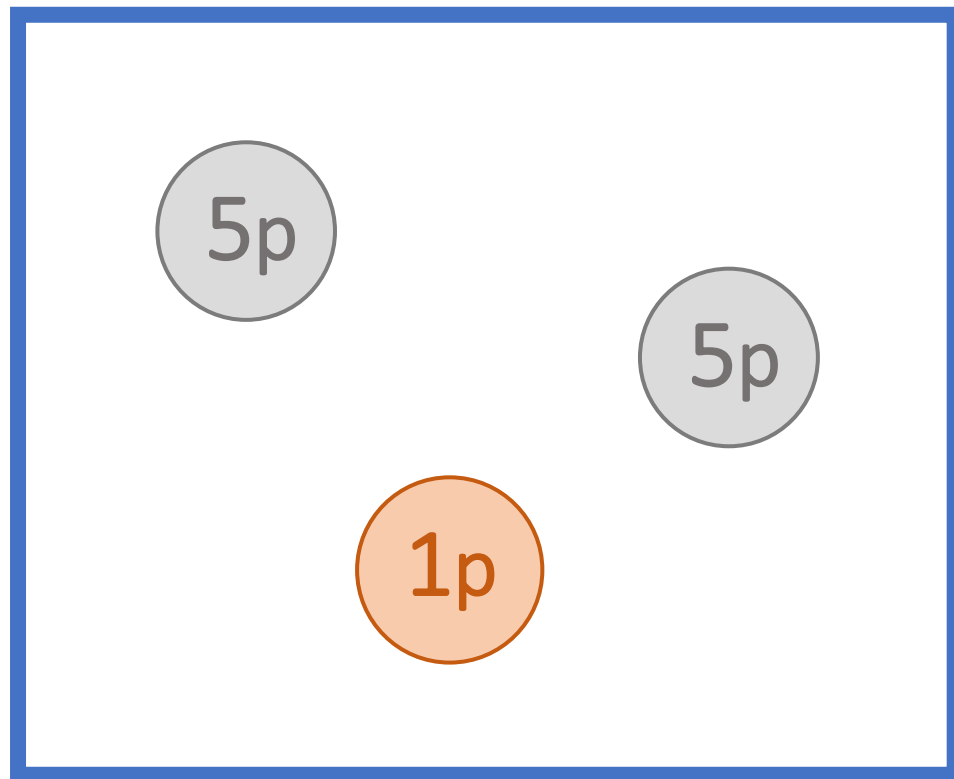
=



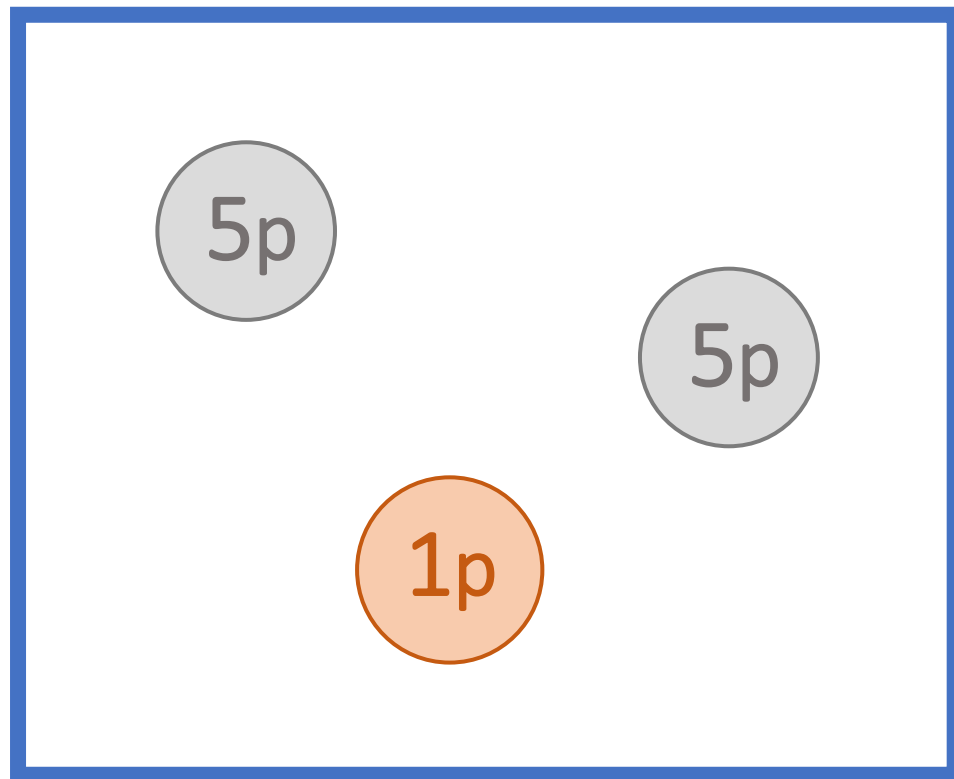
15p

Same

Same or Different?

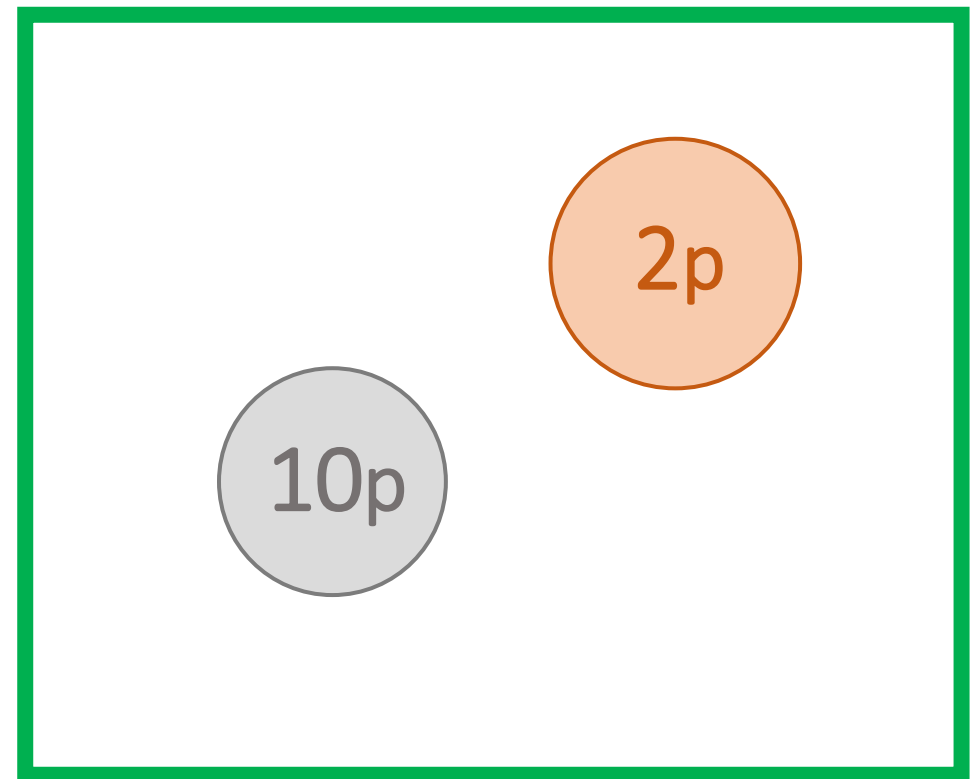


Same or Different?



11p

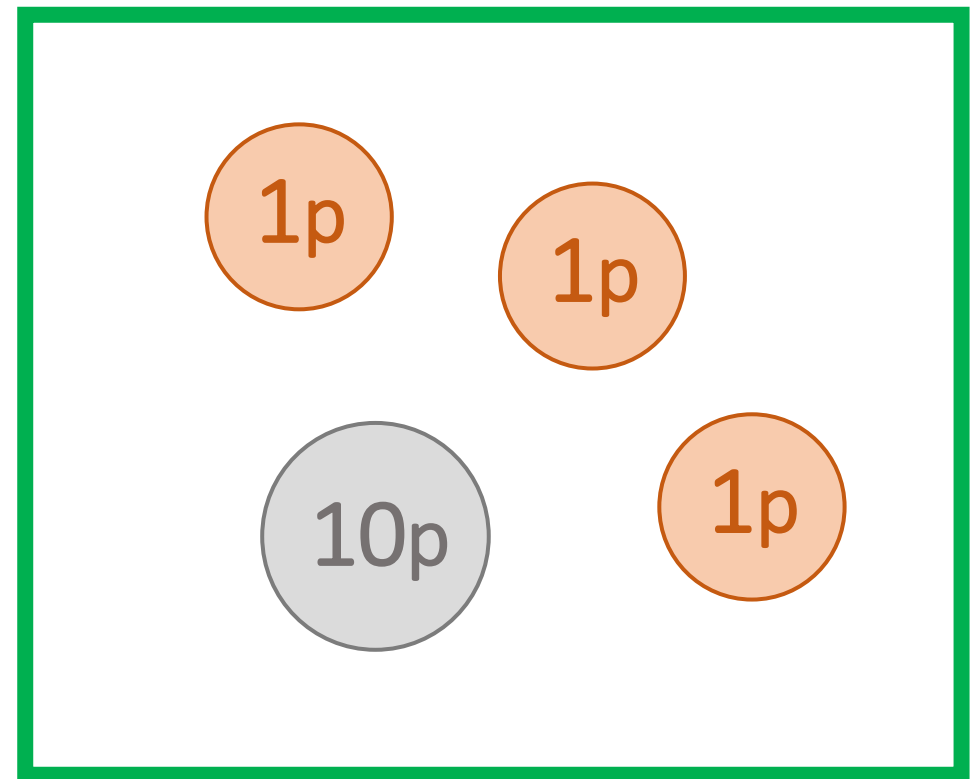
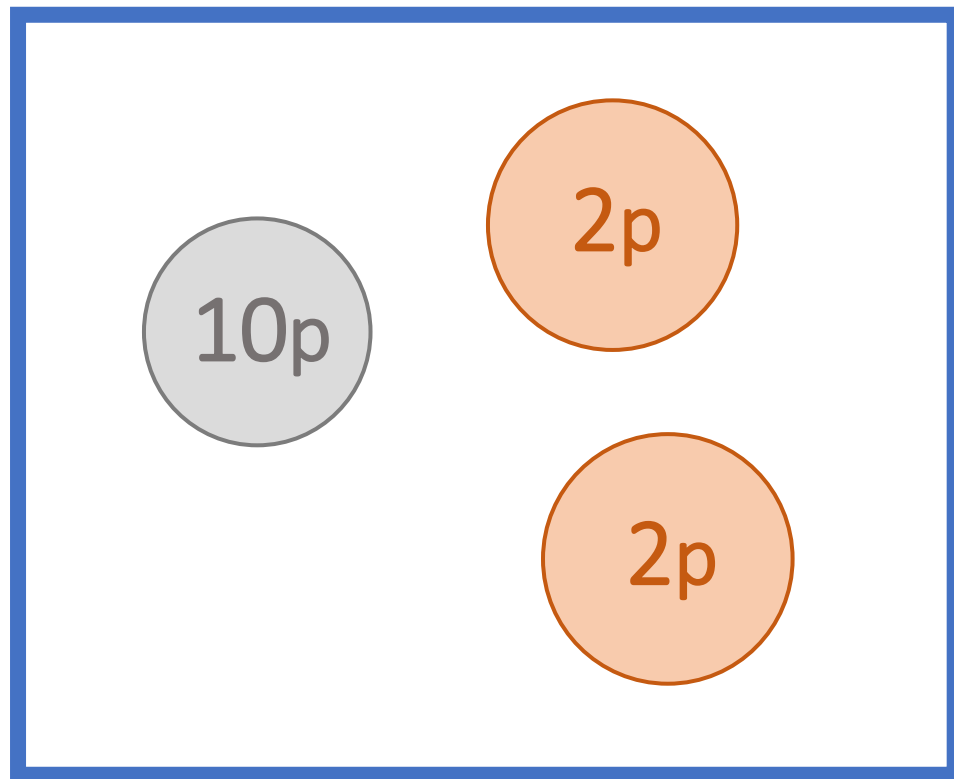
<



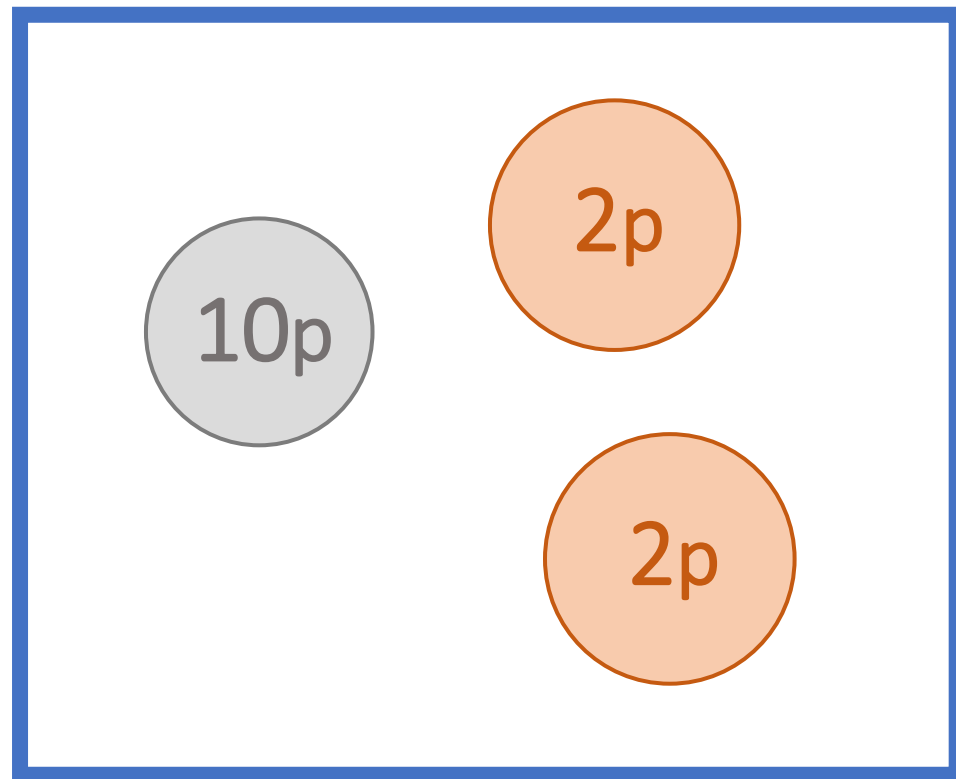
12p

Different

Same or Different?

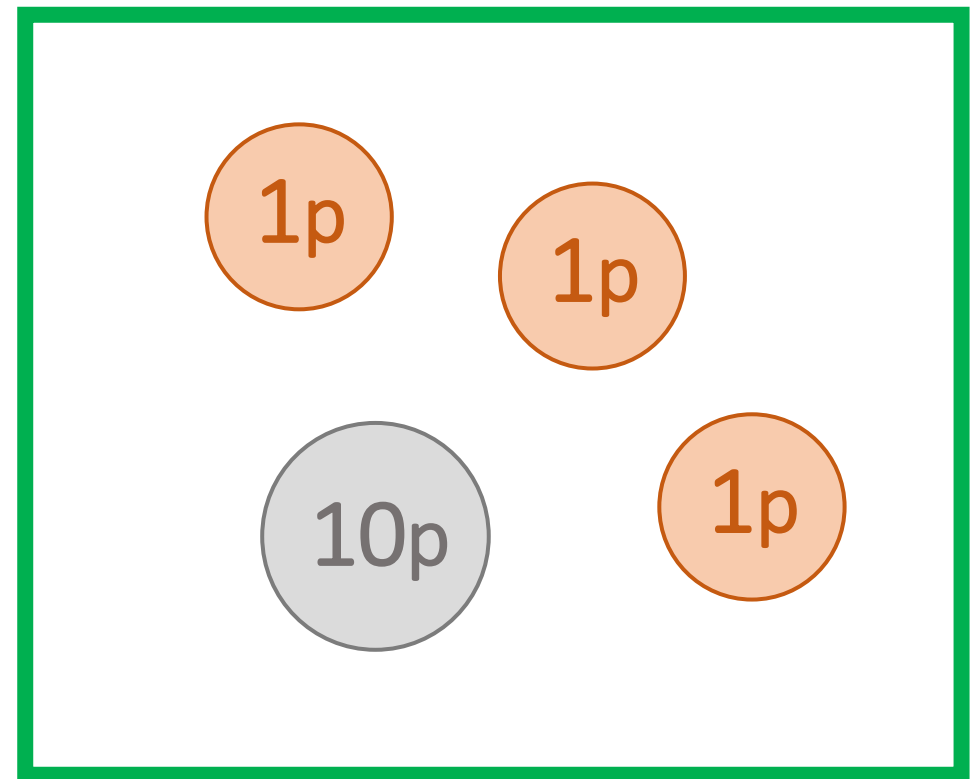


Same or Different?



14p

>



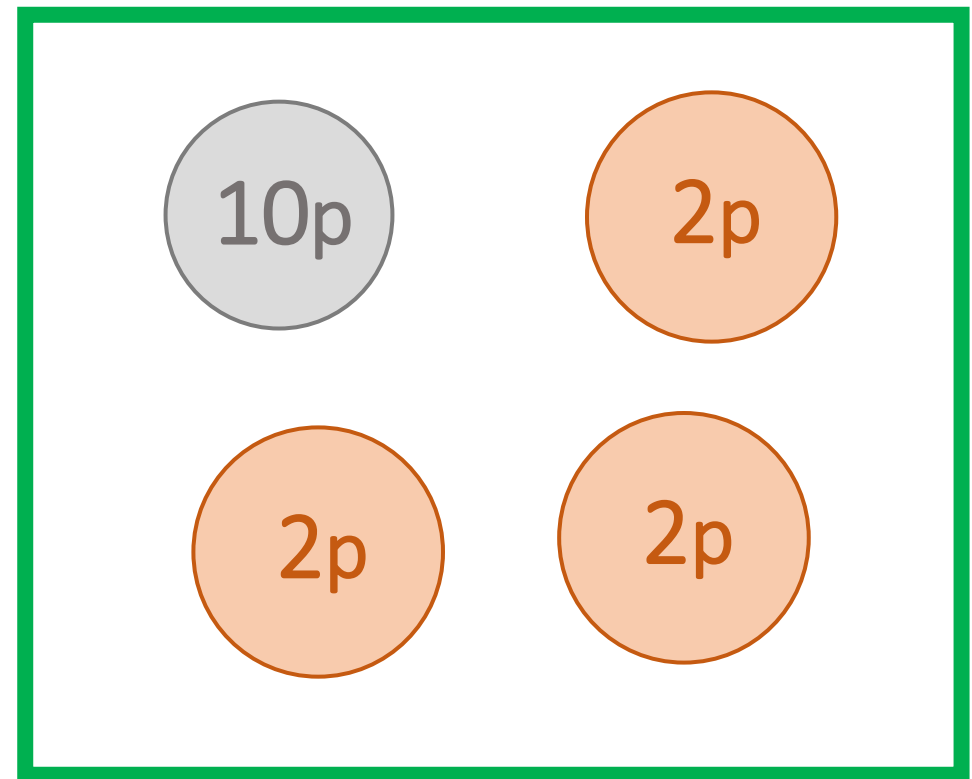
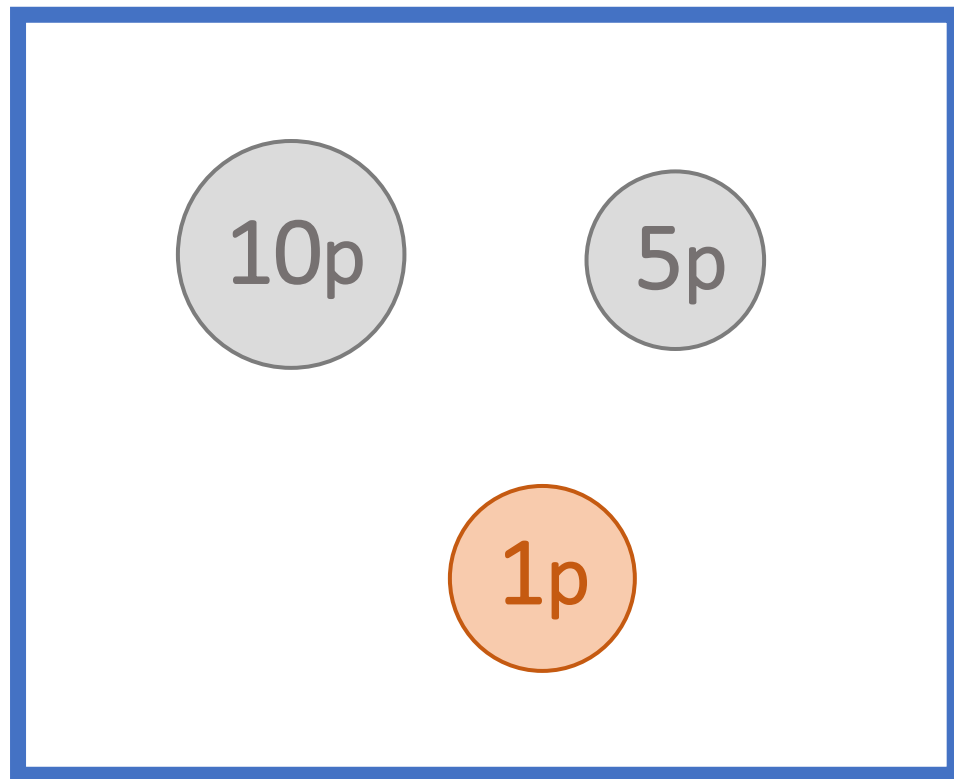
13p

Different

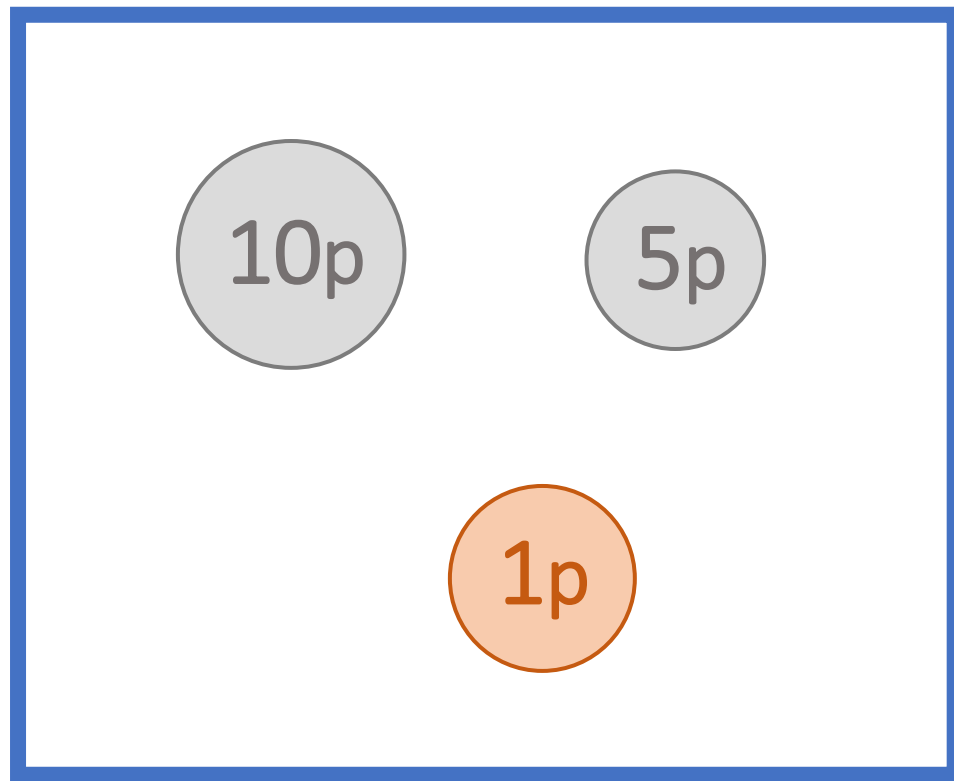
Groups of Coins

Part 1

Same or Different?

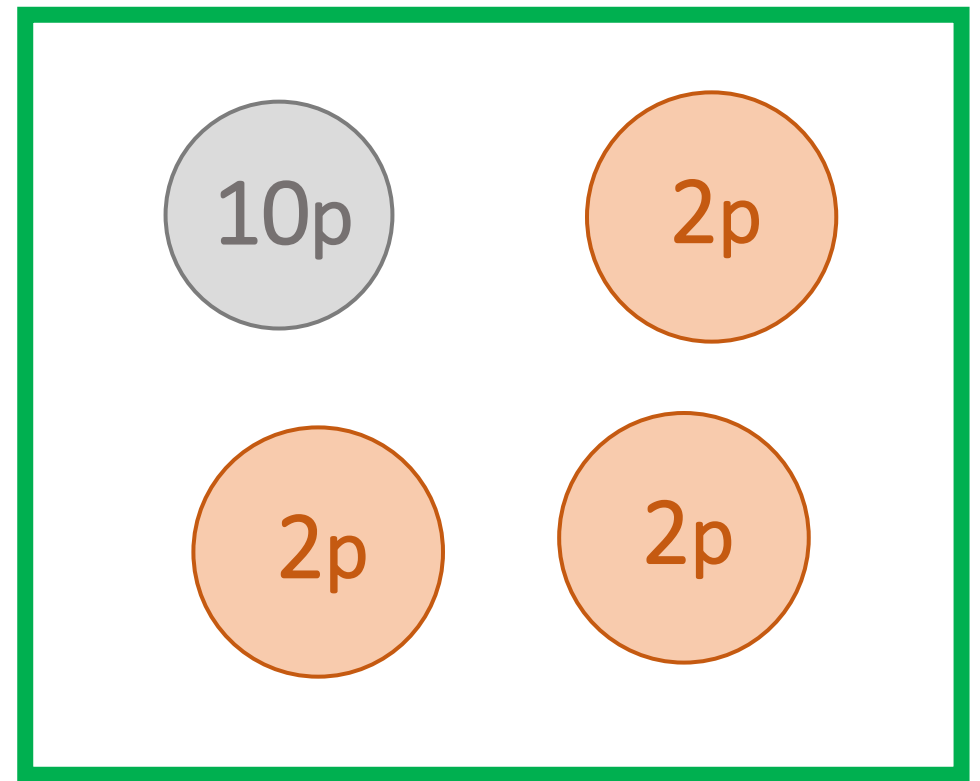


Same or Different?



16p

=



16p

Same

Groups of Coins

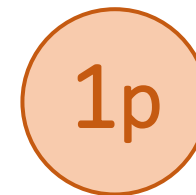
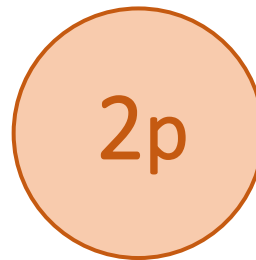
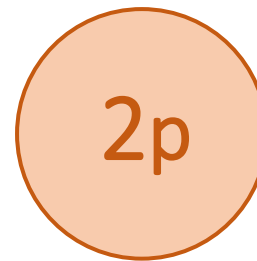
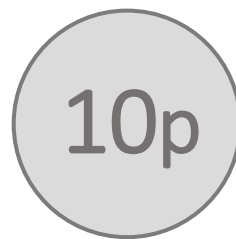
Part 2

Make 14p. Use 4 coins.

✓ or ✗

Make 14p. Use 4 coins.

✓ or ✗

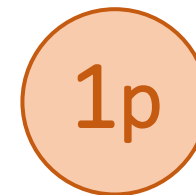
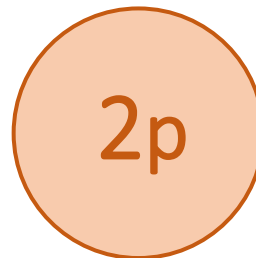
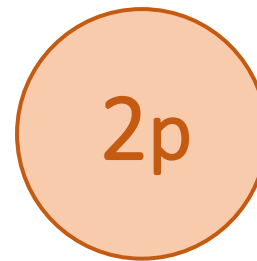
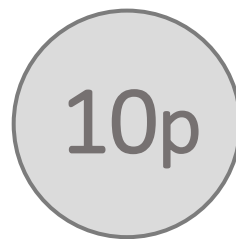


Groups of Coins

Part 2

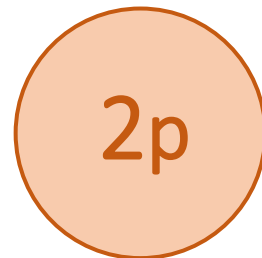
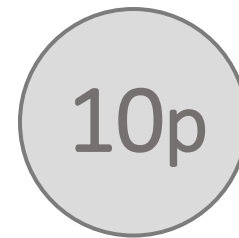
Make **14p.** Use 4 coins.

✓ or ✗



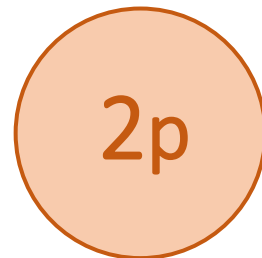
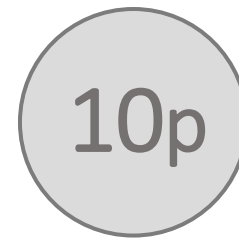
Make 14p. Use 4 coins.

✓ or ✗



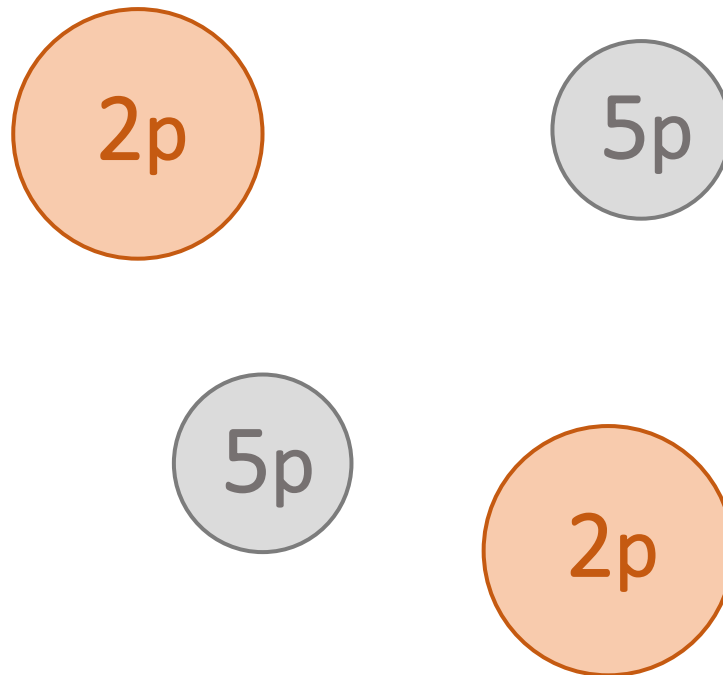
Make 14p. Use 4 coins.

✓ or ✗



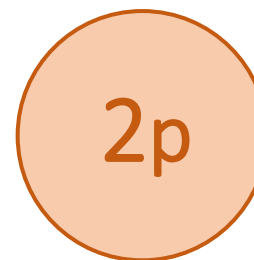
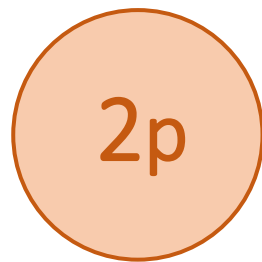
Make 14p. Use 4 coins.

✓ or ✗



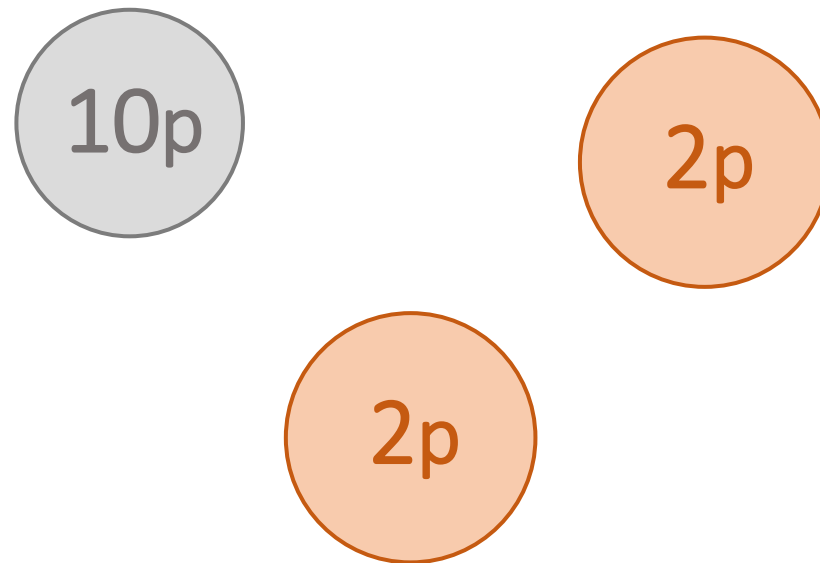
Make 14p. Use 4 coins.

✓ or ✗



Make 14p. Use 4 coins.

✓ or ✗

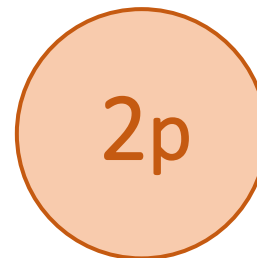
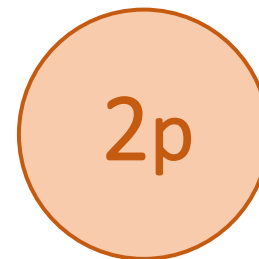
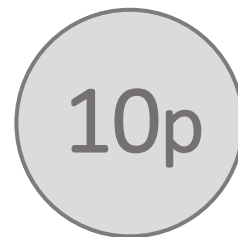


Groups of Coins

Part 2

Make 14p. Use 4 coins.

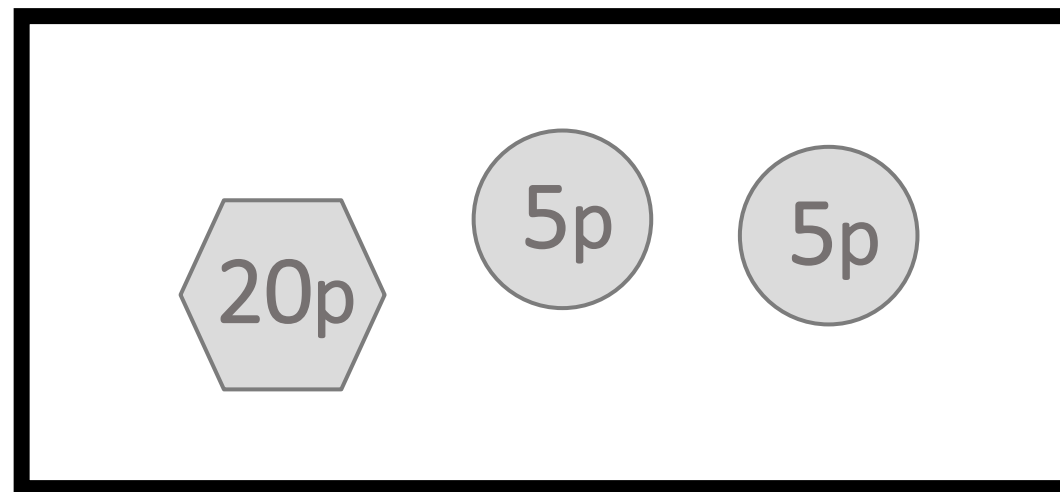
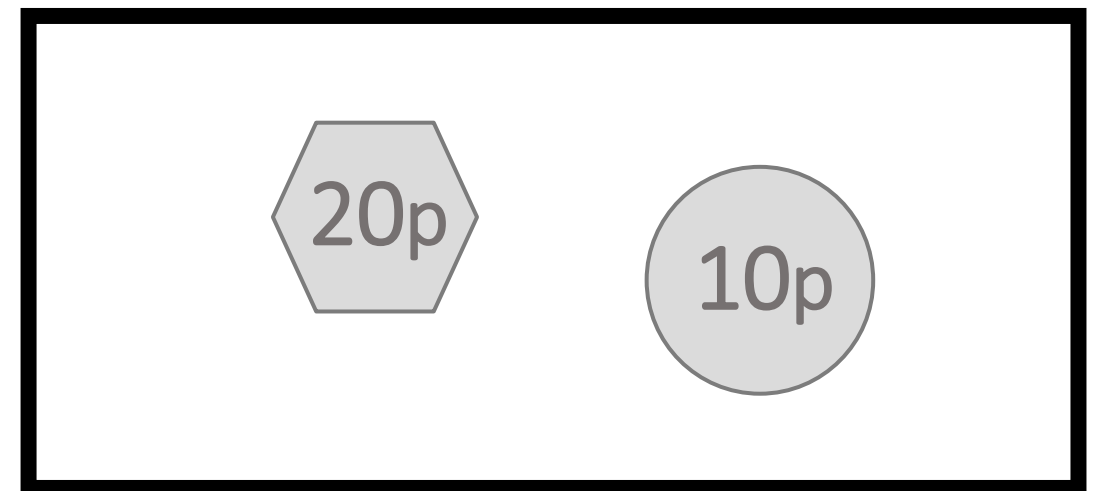
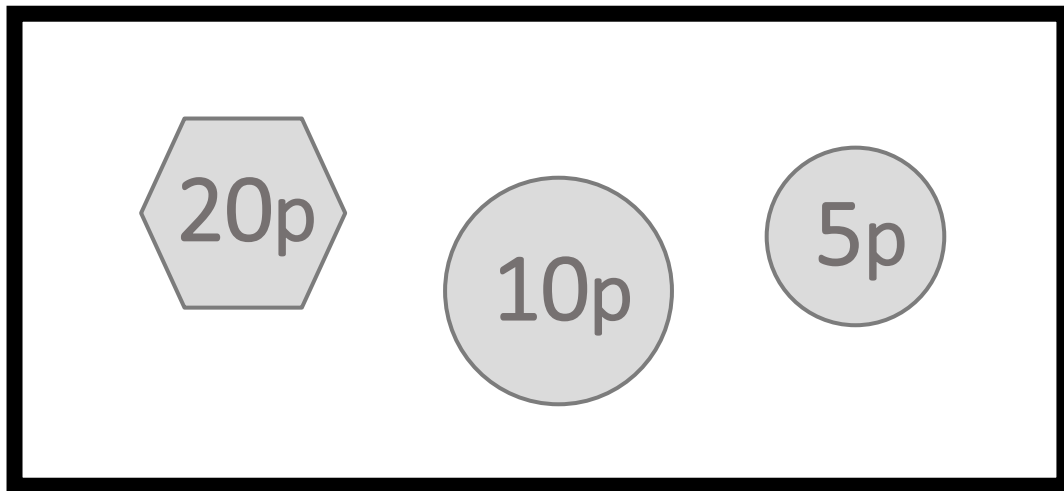
✓ or ✗



Adding Coins

Part 1

Odd One Out

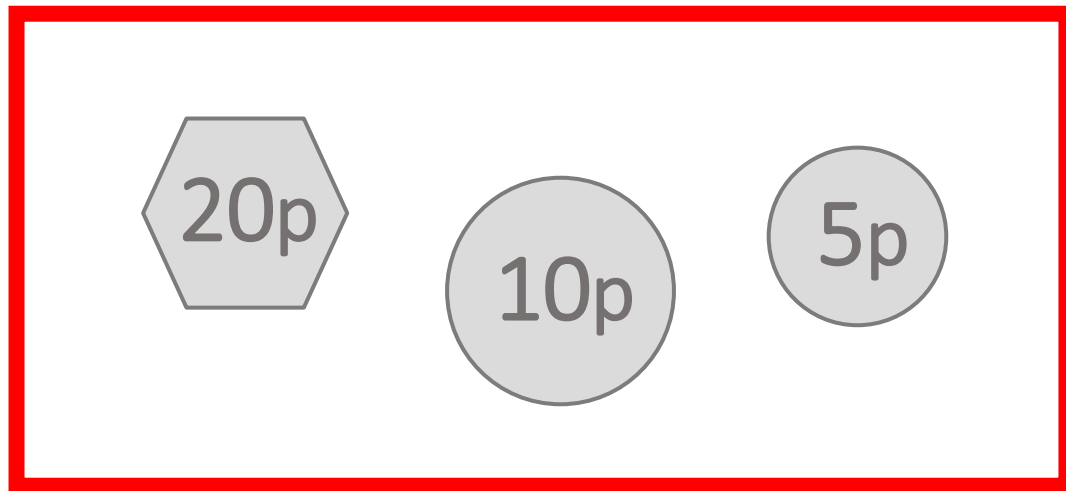


Adding Coins

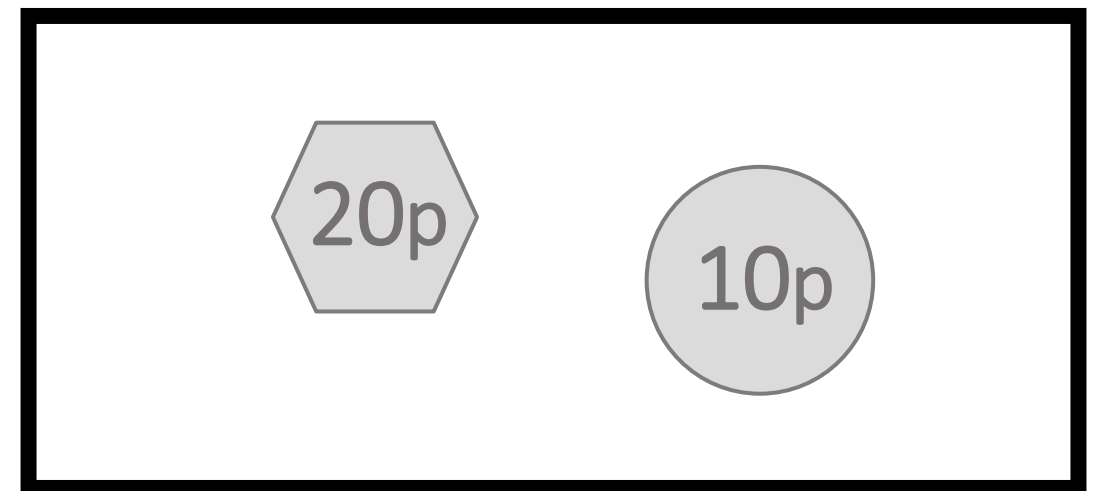
Part 1

Odd One Out

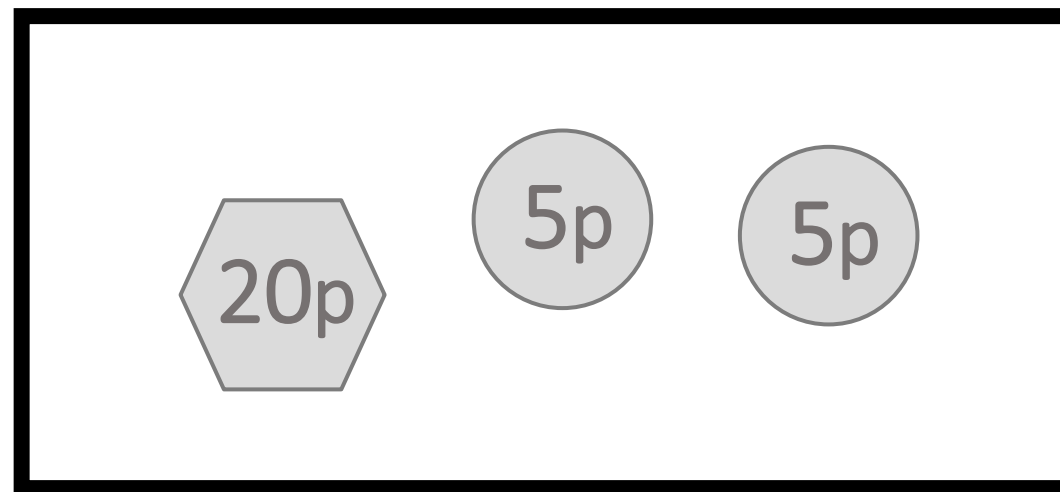
35p



30p



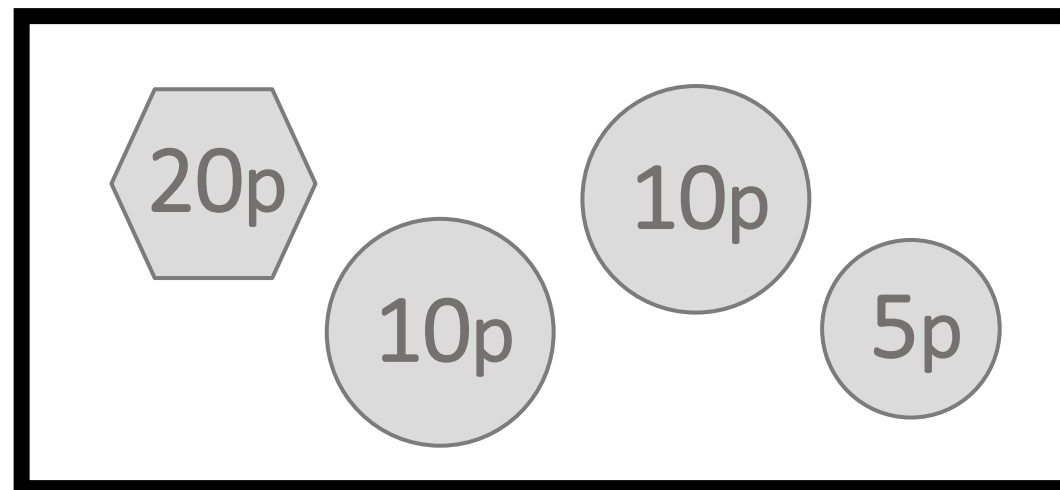
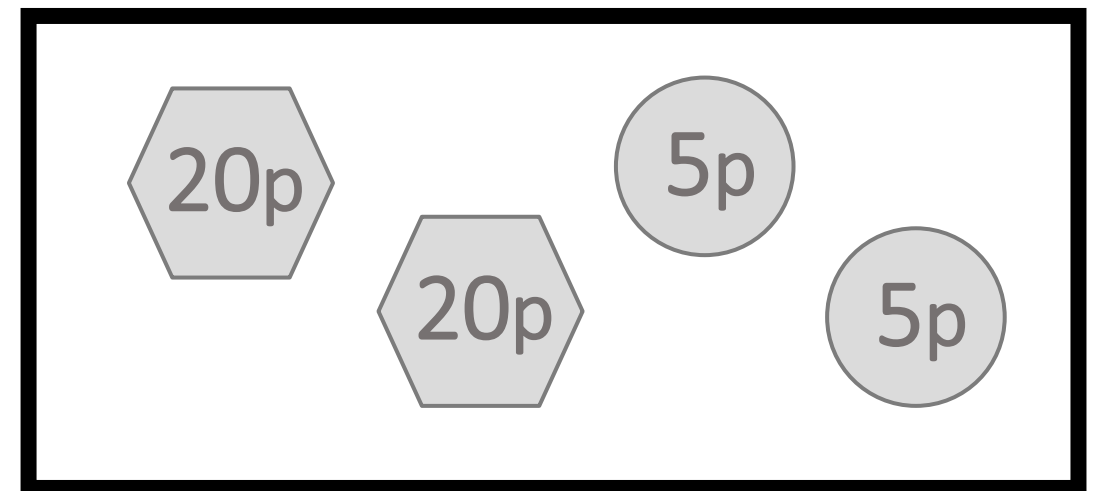
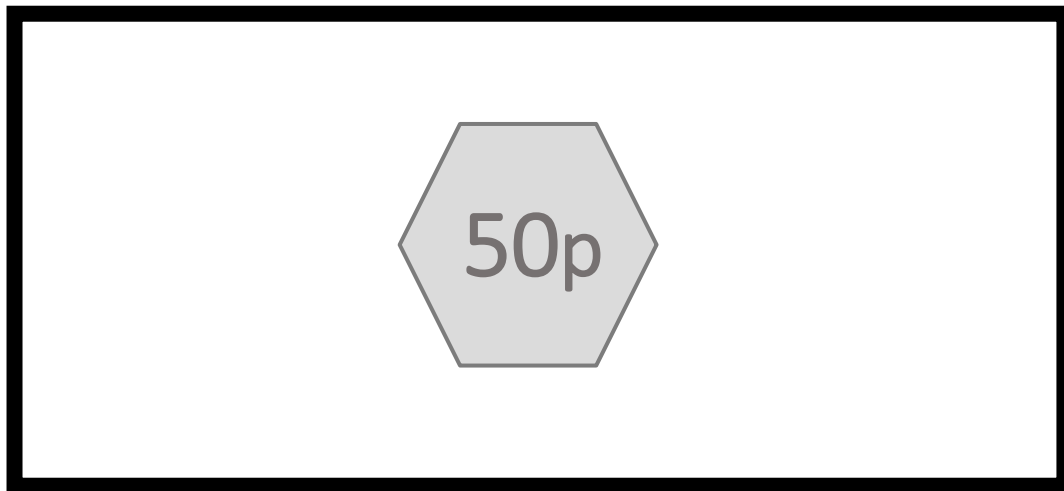
30p



Adding Coins

Part 1

Odd One Out

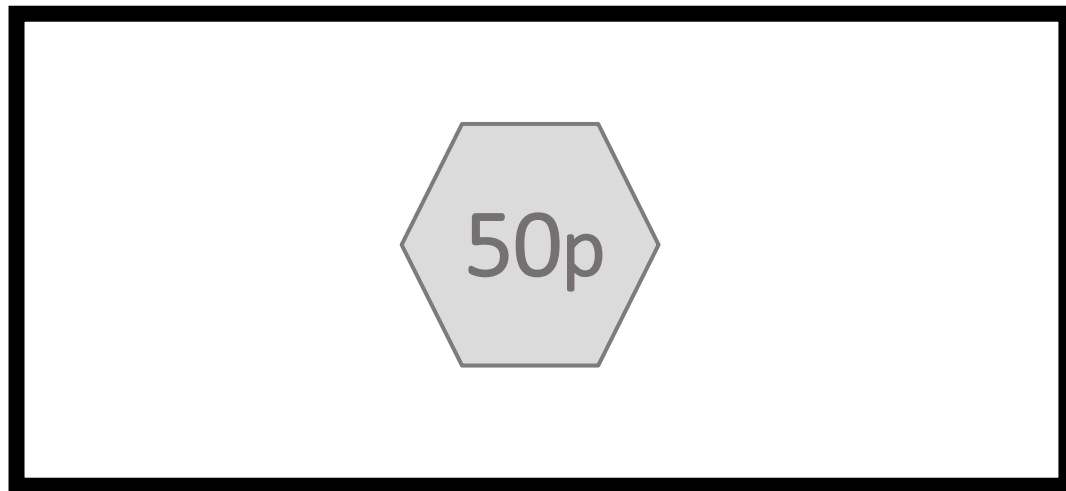


Adding Coins

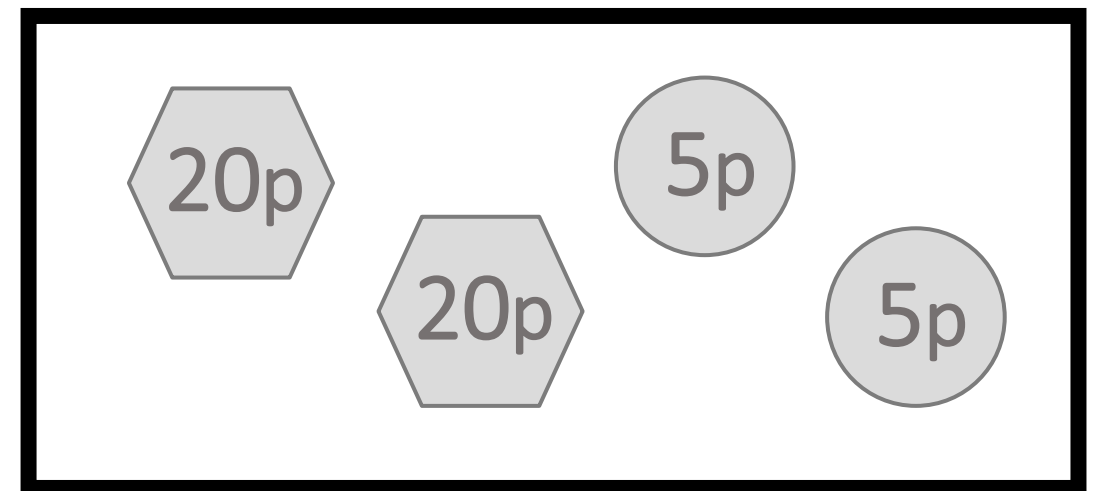
Part 1

Odd One Out

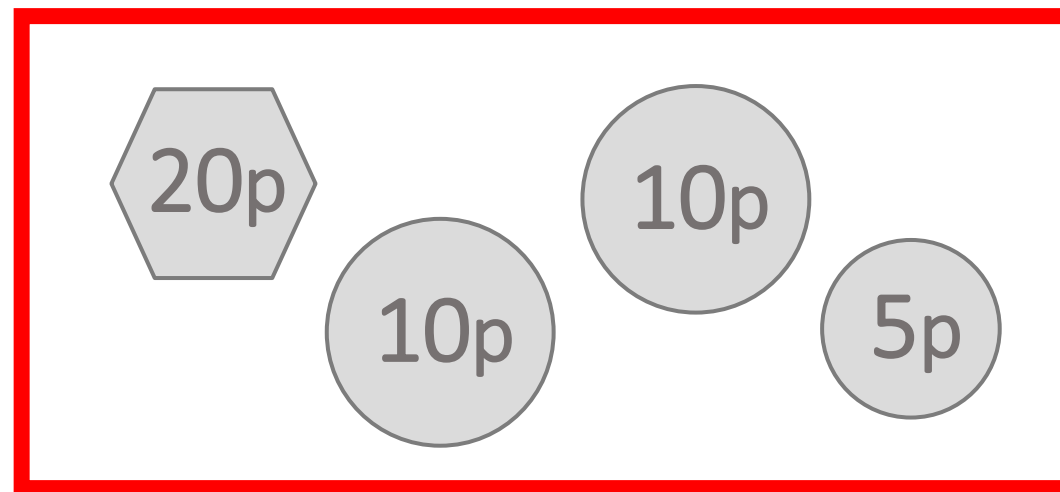
50p



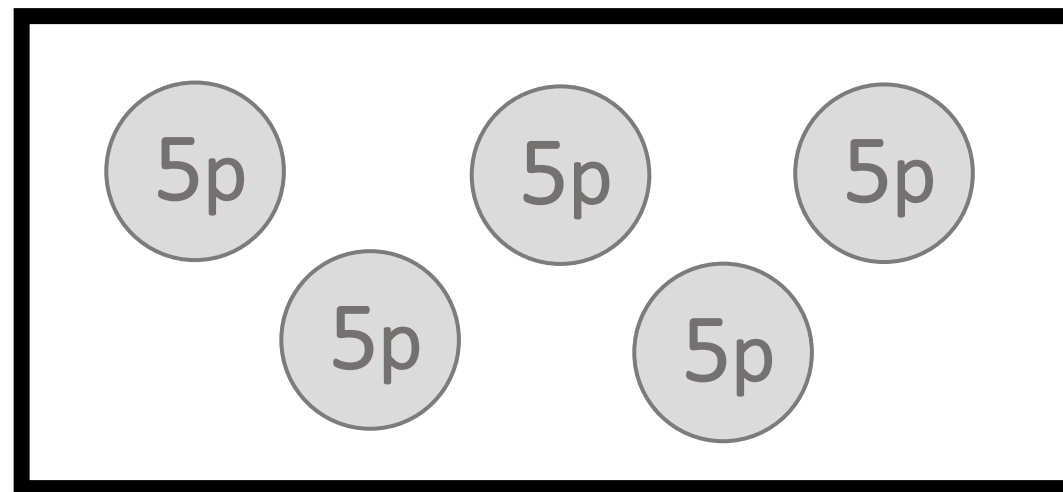
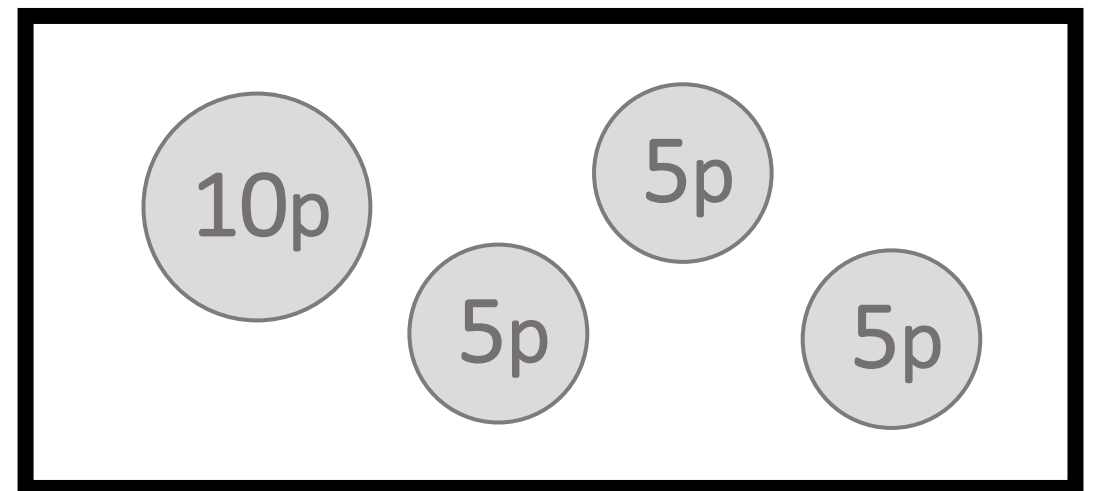
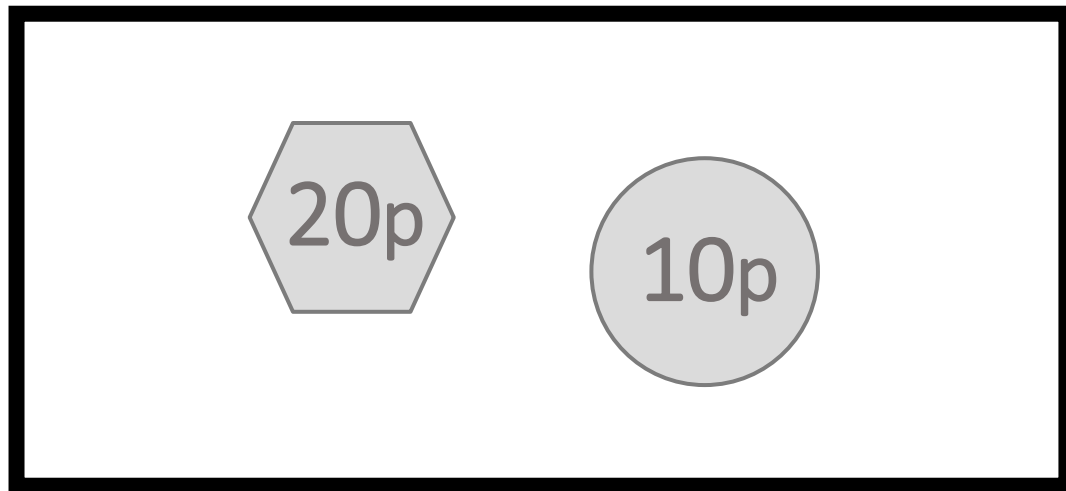
50p



45p



Odd One Out

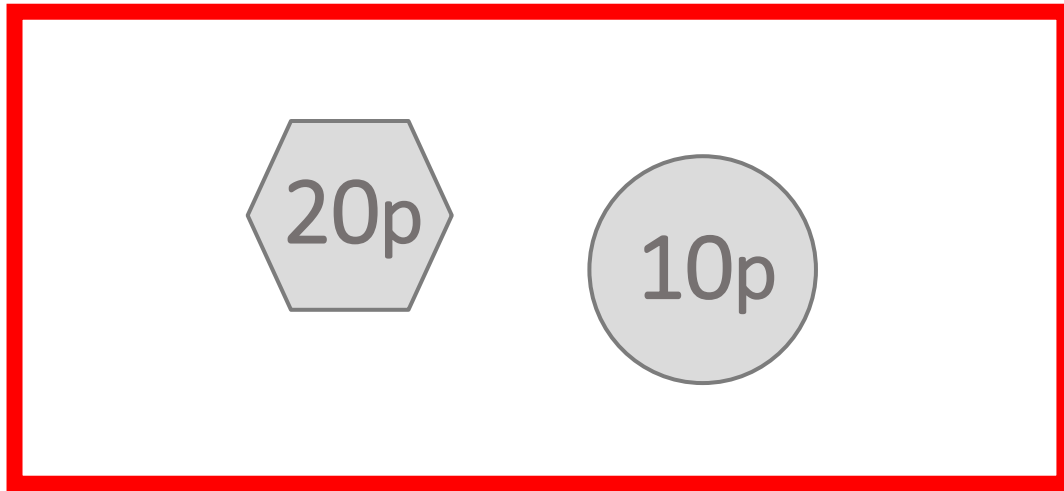


Adding Coins

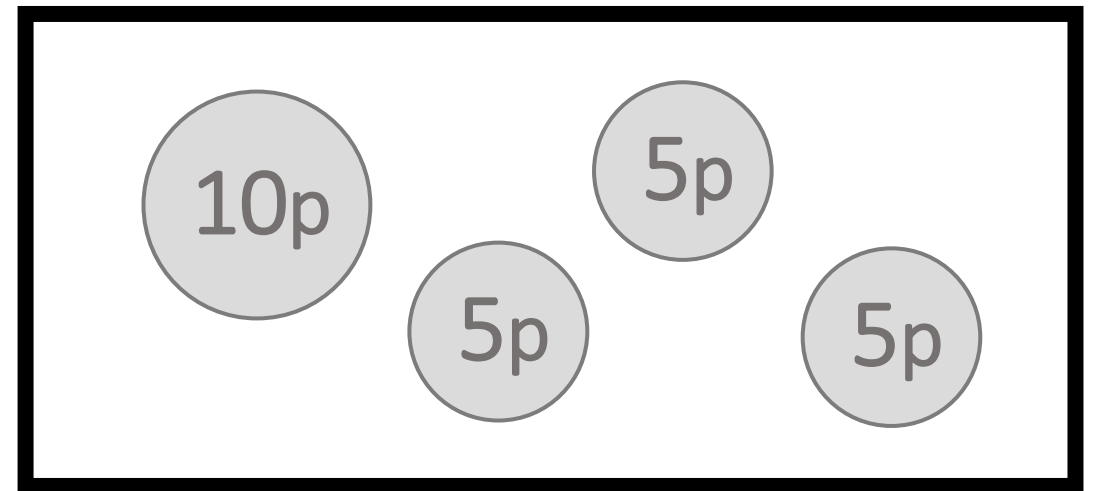
Part 1

Odd One Out

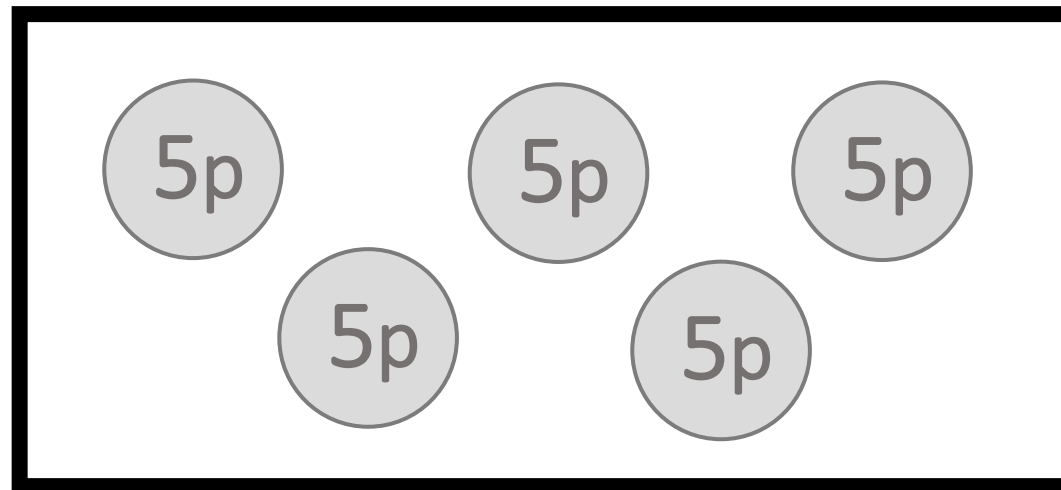
30p



25p



25p



Adding Coins

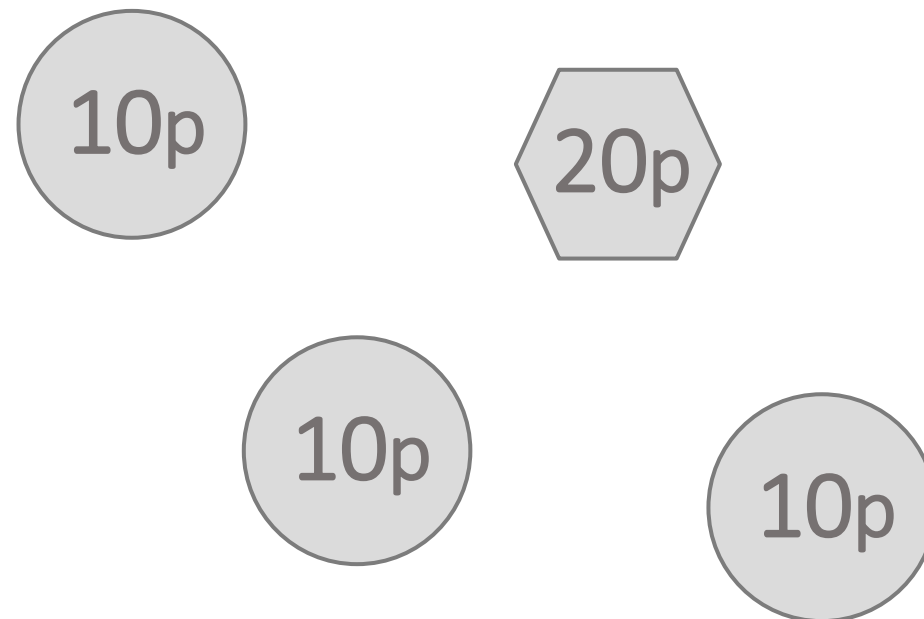
Part 2

Make 50p. Use 4 coins.

✓ or ✗

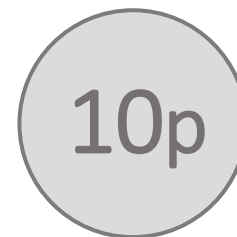
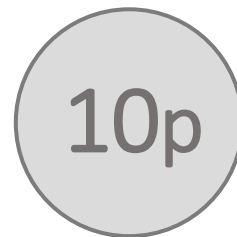
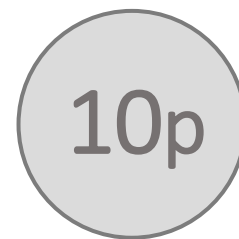
Make 50p. Use 4 coins.

✓ or ✗



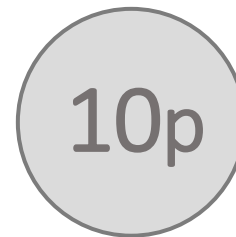
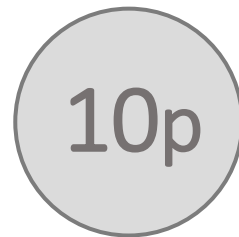
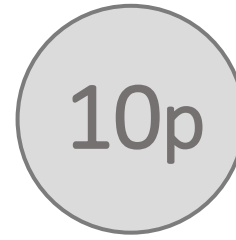
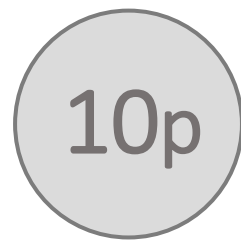
Make 50p. Use 4 coins.

✓ or ✗



Make 50p. Use 4 coins.

✓ or ✗

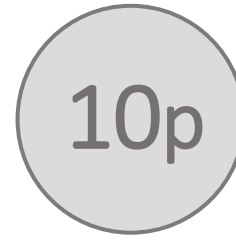
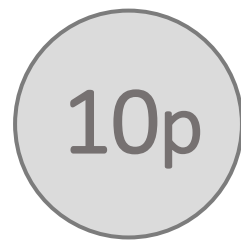


Adding Coins

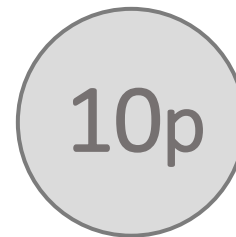
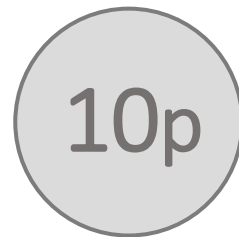
Part 2

Make **50p.** Use 4 coins.

✓ or ✗

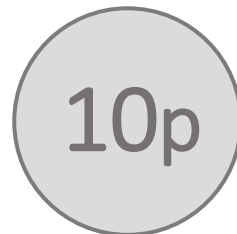


✗



Make 50p. Use 4 coins.

✓ or ✗

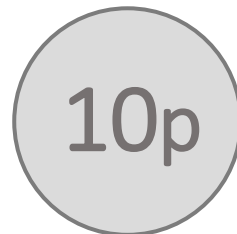


Adding Coins

Part 2

Make 50p. Use 4 coins.

✓ or ✗



Make 50p. Use 4 coins.

✓ or ✗



Make 50p. Use 4 coins.

✓ or ✗

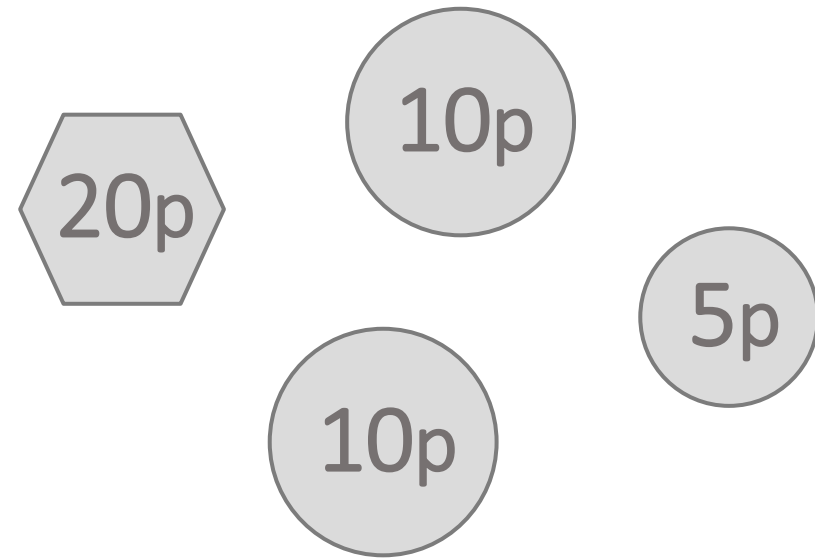


Change

Part 1



Kam's money:



Kam needs more money.

Kam can buy. No change.

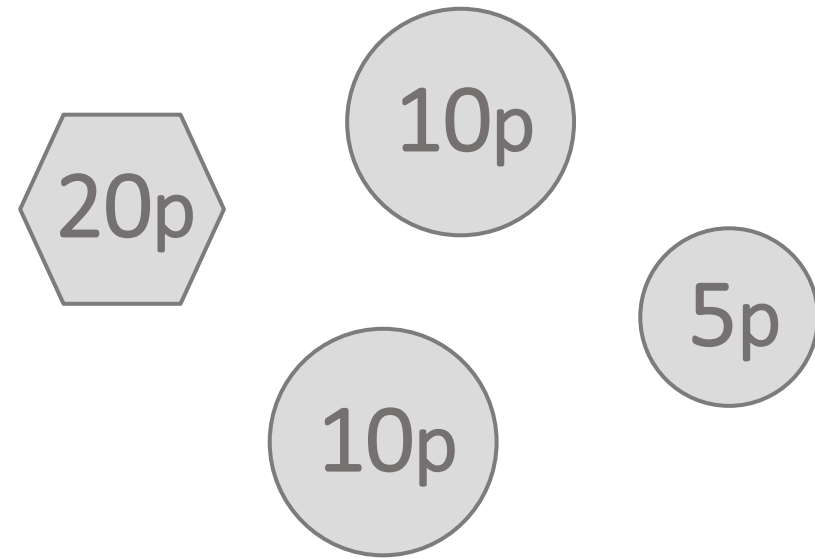
Kam can buy. He gets change.

Change

Part 1



Kam's money:



Kam needs more money.

Kam can buy. No change.

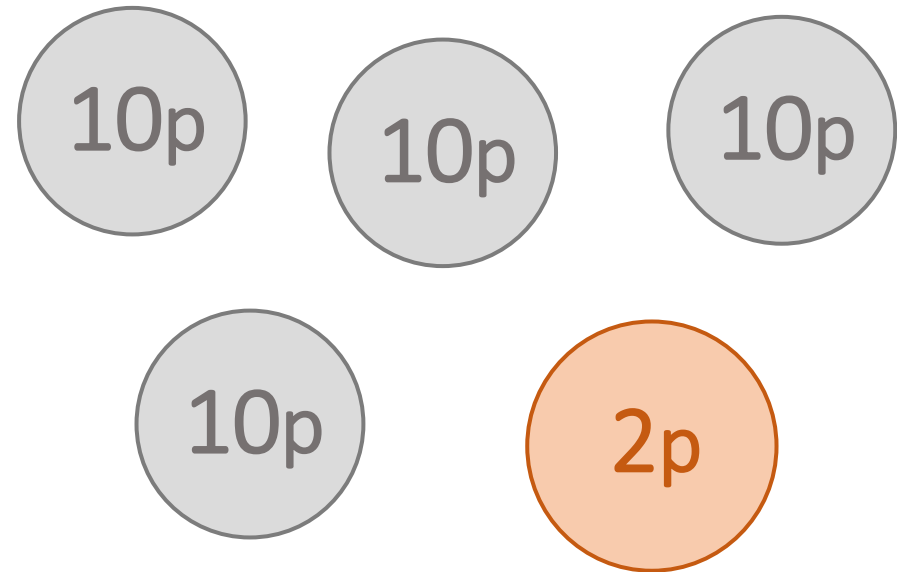
Kam can buy. He gets change.

Change

Part 1



Jenny's money:



Jenny needs more money.

Jenny can buy. No change.

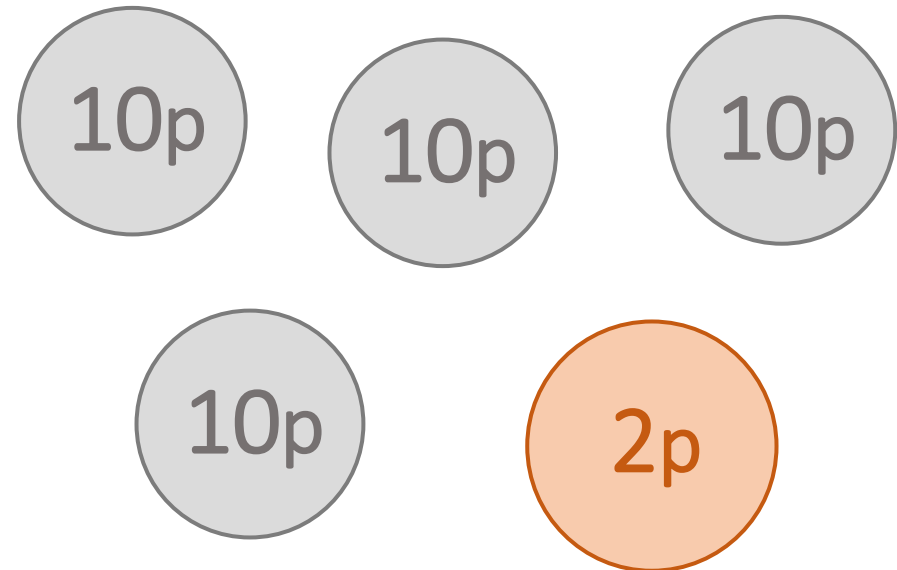
Jenny can buy. She gets change.

Change

Part 1



Jenny's money:



Jenny needs more money.

Jenny can buy. No change.

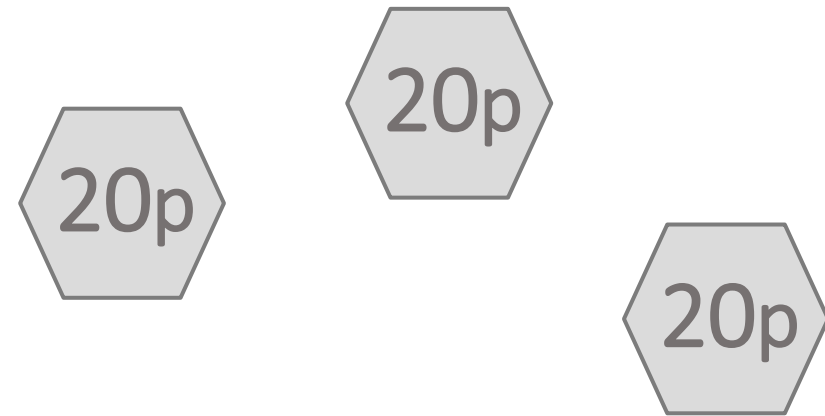
Jenny can buy. She gets change.

Change

Part 1



Helen's money:



Helen needs more money.

Helen can buy. No change.

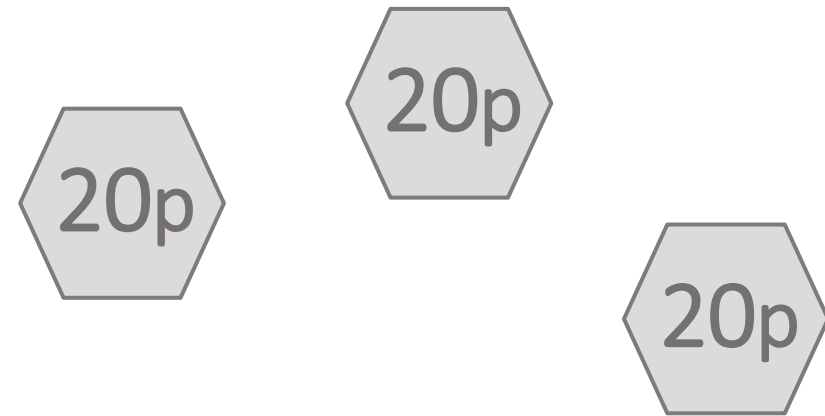
Helen can buy. She gets change.

Change

Part 1



Helen's money:



Helen needs more money.

Helen can buy. No change.

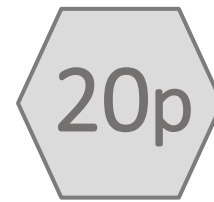
Helen can buy. She gets change.

Change

Part 2



Zack's money:



Zack needs more.

OR

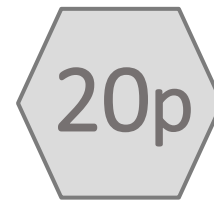
Zack gets change.

Change

Part 2



Zack's money:



Zack needs more.

OR

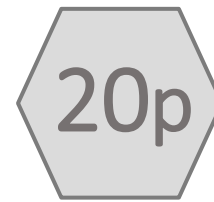
Zack gets change.

Change

Part 2



Zack's money:



Zack needs **10p** more.

OR

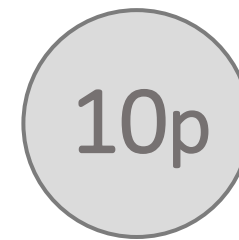
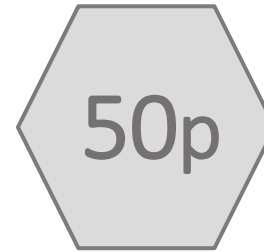
Zack gets ~~change~~ change.

Change

Part 2



Beth's money:



Beth needs more.

OR

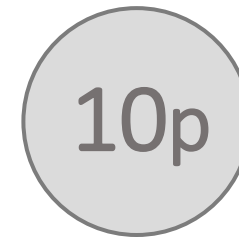
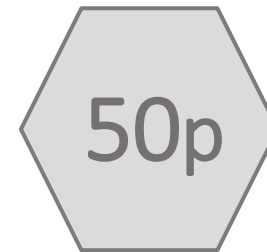
Beth gets change.

Change

Part 2



Beth's money:



Beth needs ~~50p~~ more.

OR

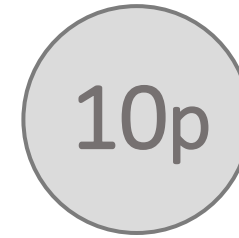
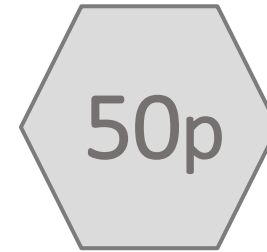
Beth gets change.

Change

Part 2



Beth's money:



Beth needs ~~50p~~ more.

OR

Beth gets **5p** change.

Change

Part 3



I pay with 2 coins:

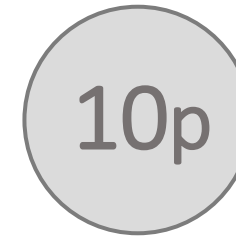
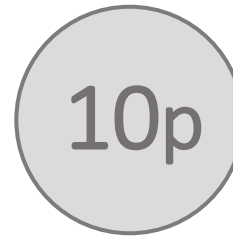
I get 2 coins change:

Change

Part 3



I pay with 2 coins:



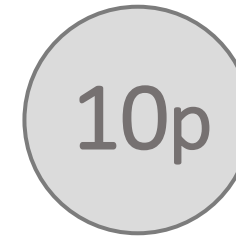
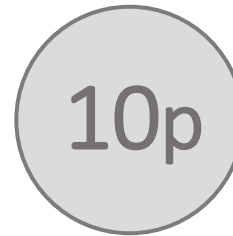
I get 2 coins change:

Change

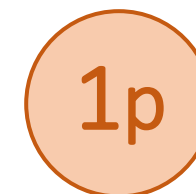
Part 3



I pay with 2 coins:



I get 2 coins change:



Change

Part 3



I pay with 1 coin:

I get 3 coins change:

Change

Part 3



I pay with 1 coin:



I get 3 coins change:

Change

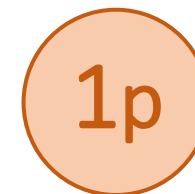
Part 3



I pay with 1 coin:



I get 3 coins change:



Change

Part 3



I pay with 3 coins:

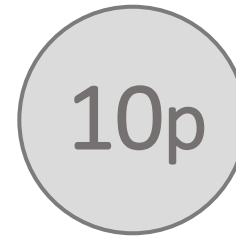
I get 2 coins change:

Change

Part 3



I pay with 3 coins:



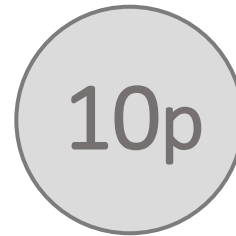
I get 2 coins change:

Change

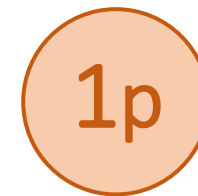
Part 3



I pay with 3 coins:



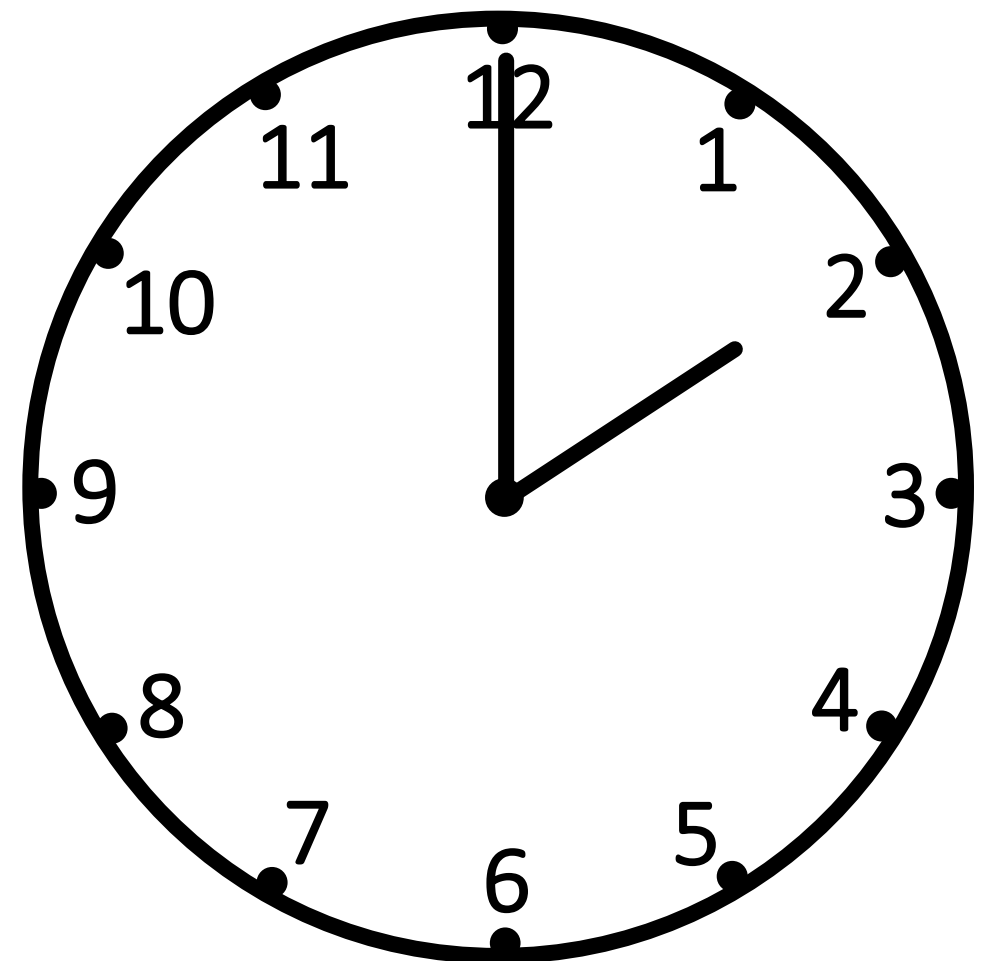
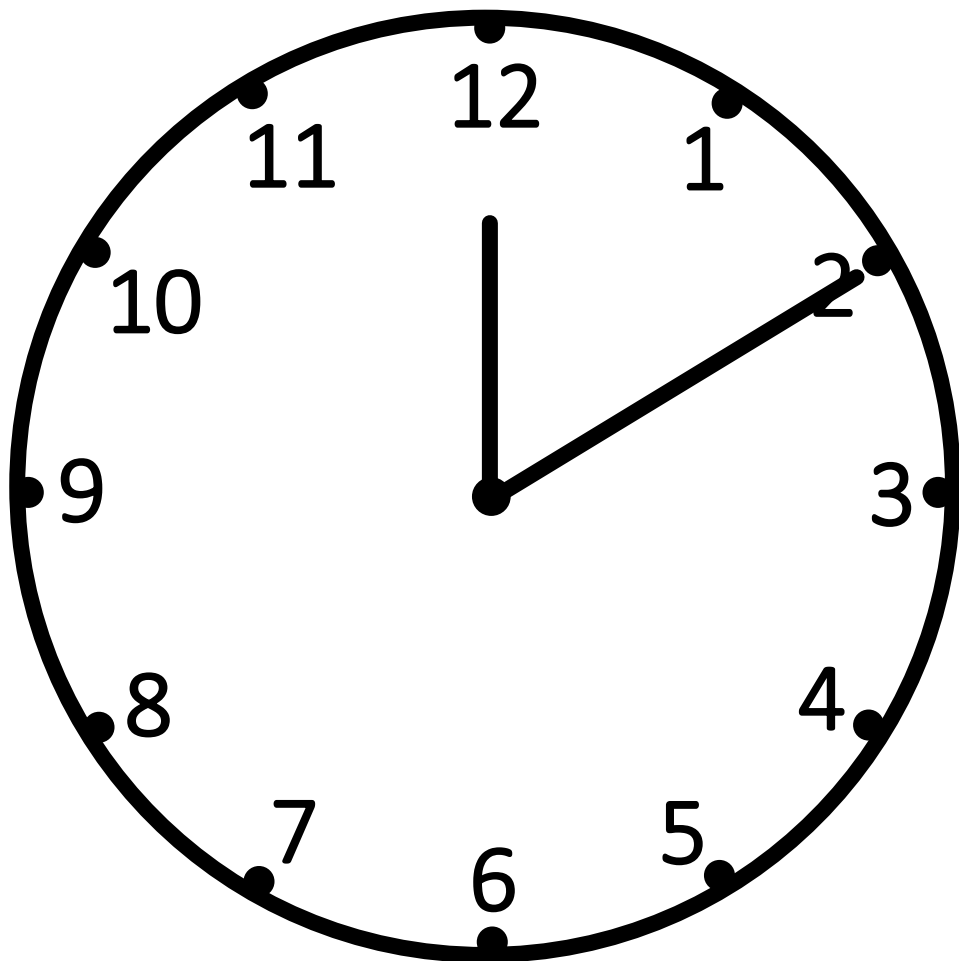
I get 2 coins change:



Reading Clocks

Part 1

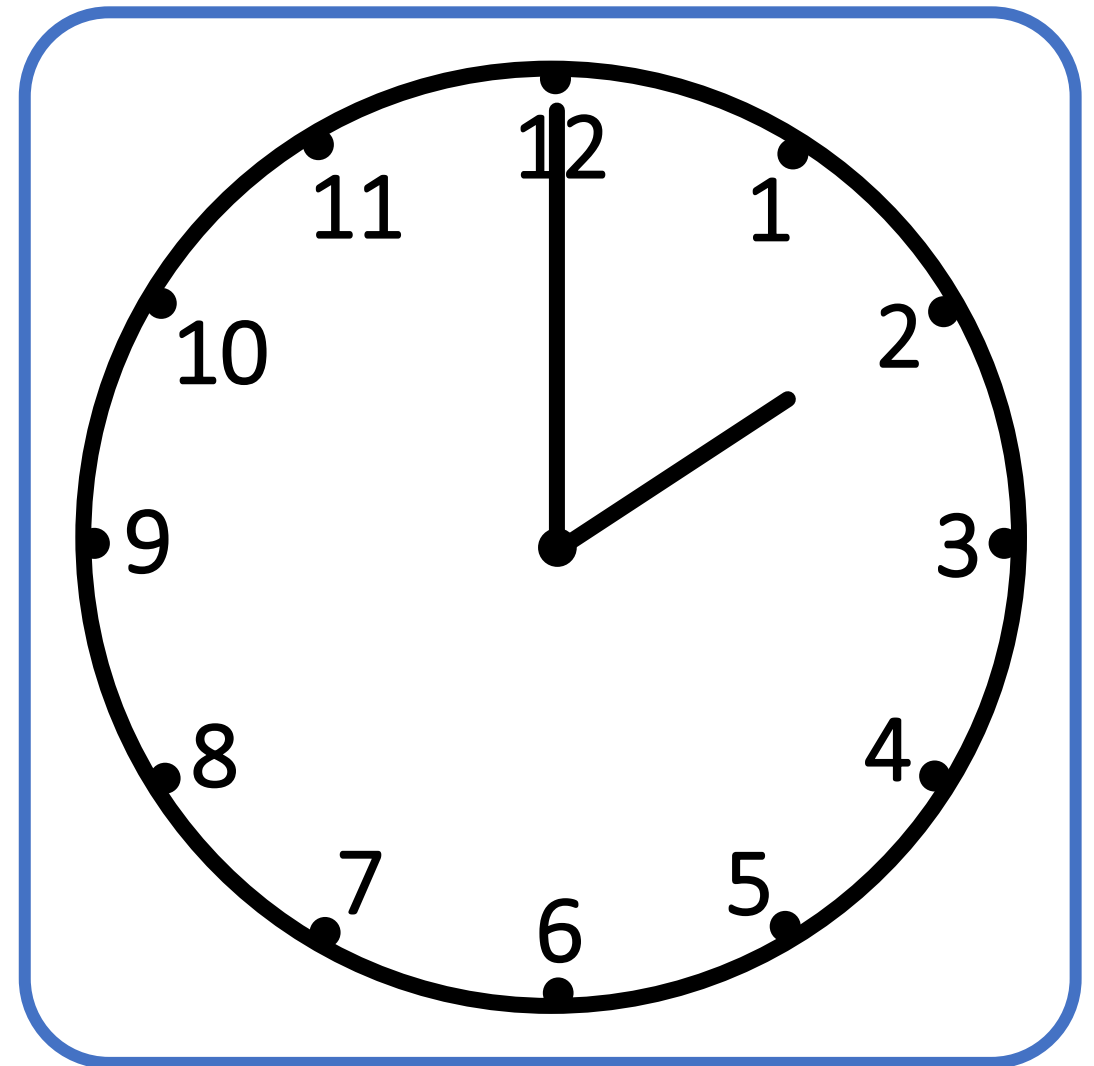
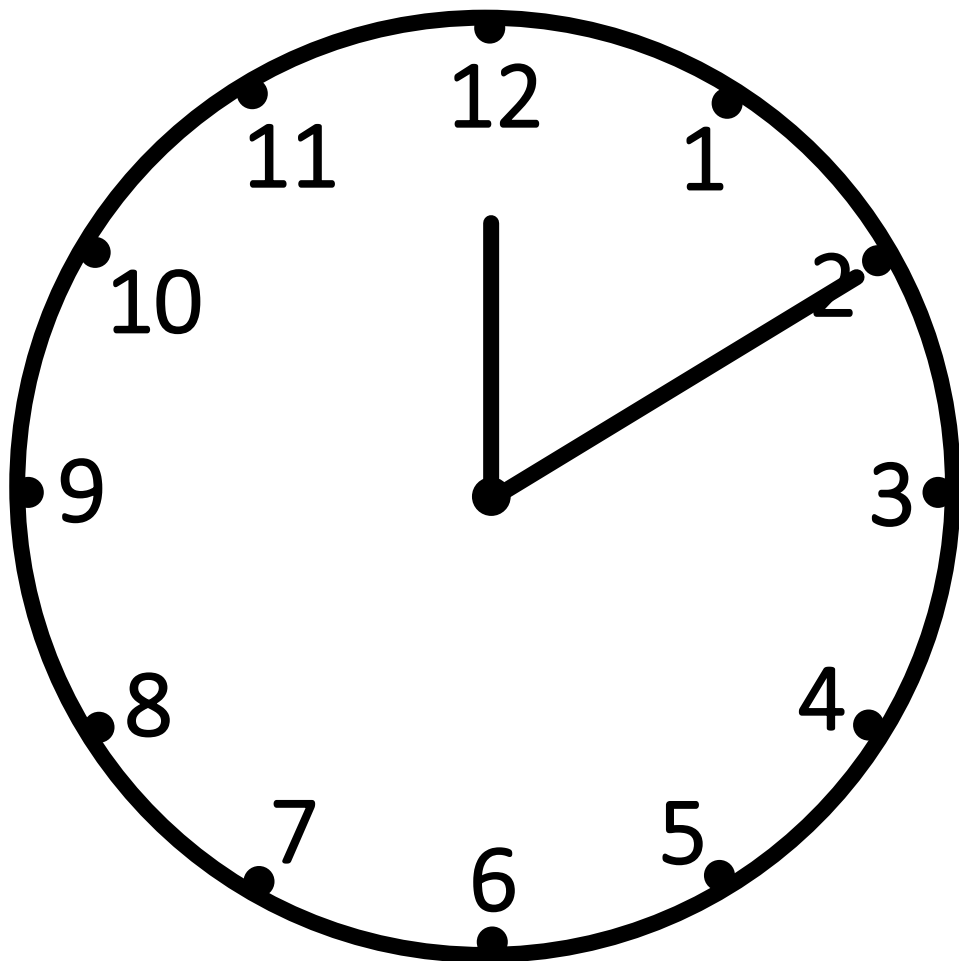
Which clock shows **2:00**?



Reading Clocks

Part 1

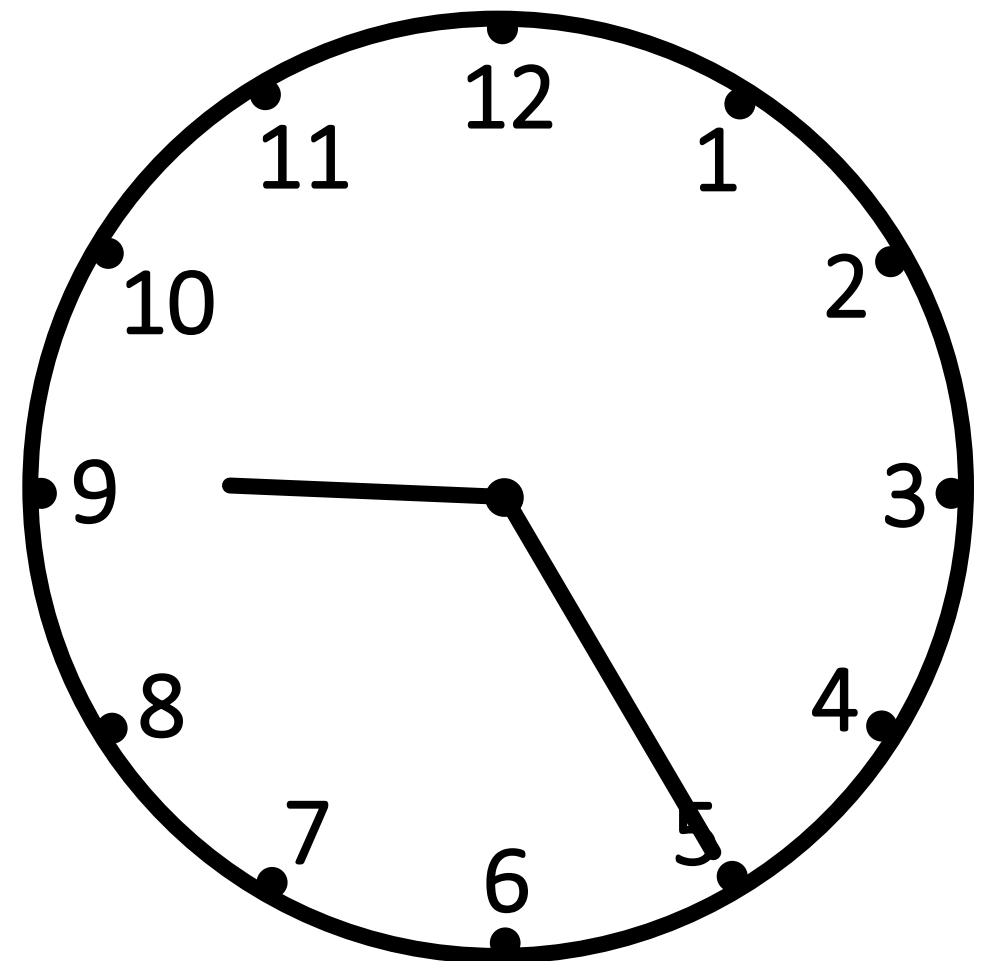
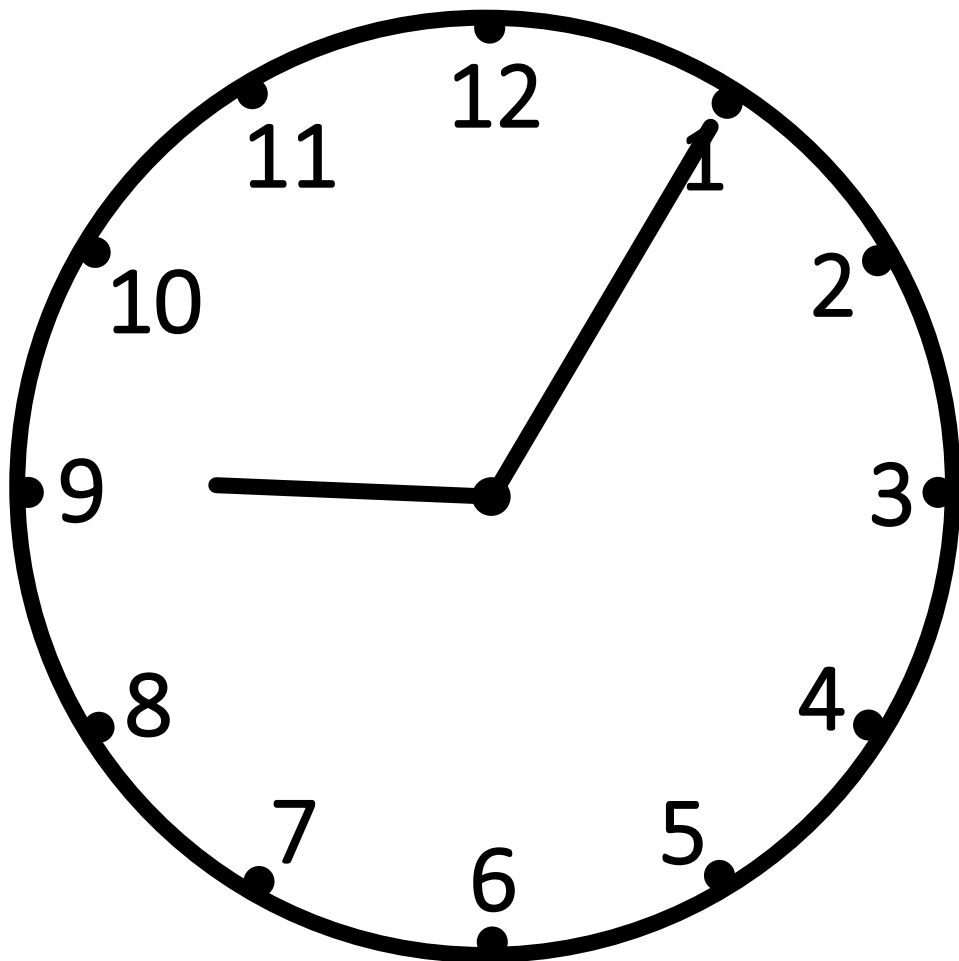
Which clock shows **2:00**?



Reading Clocks

Part 1

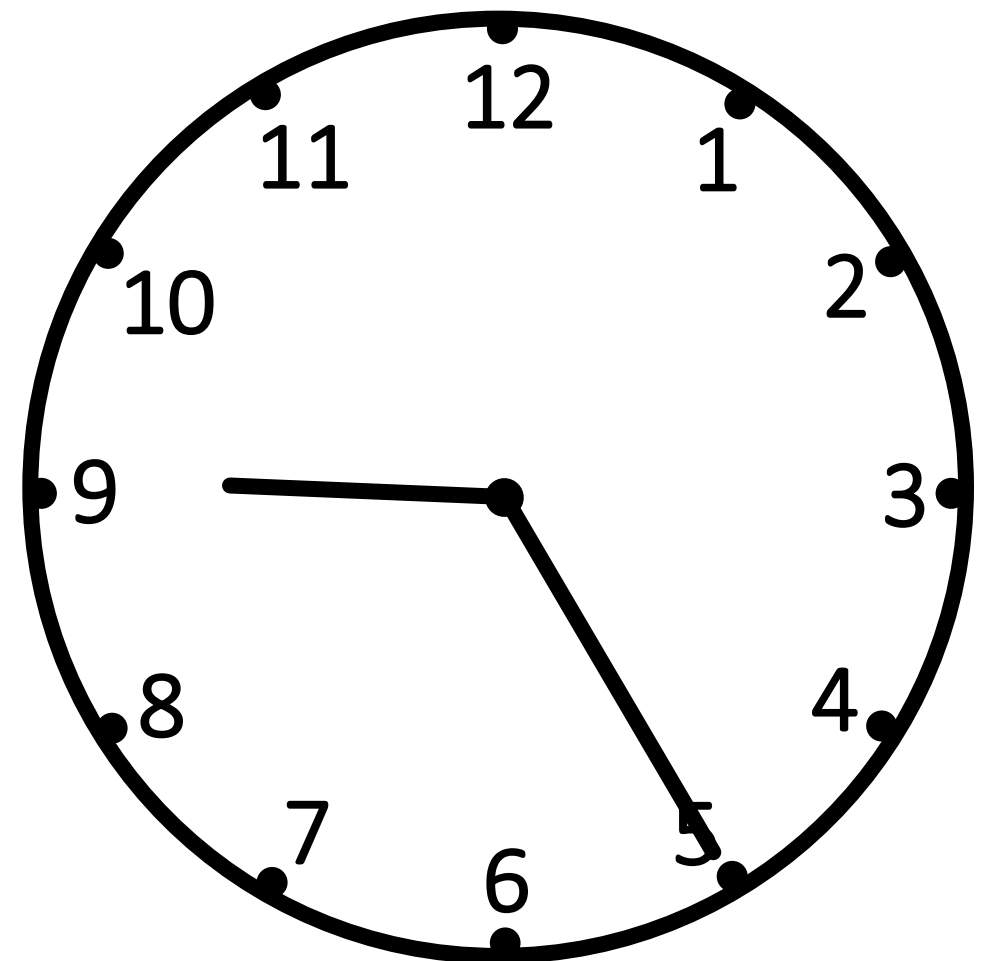
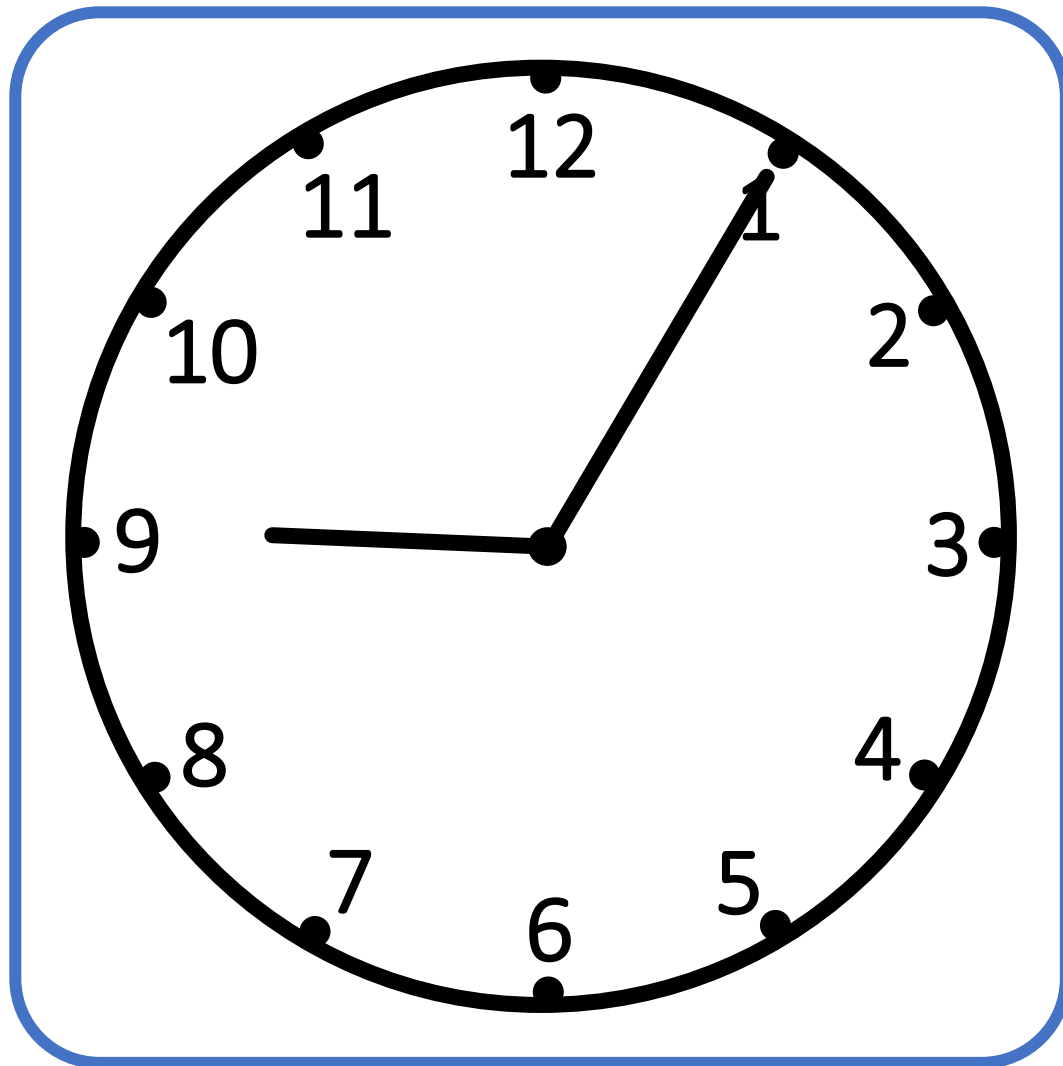
Which clock shows **9:05**?



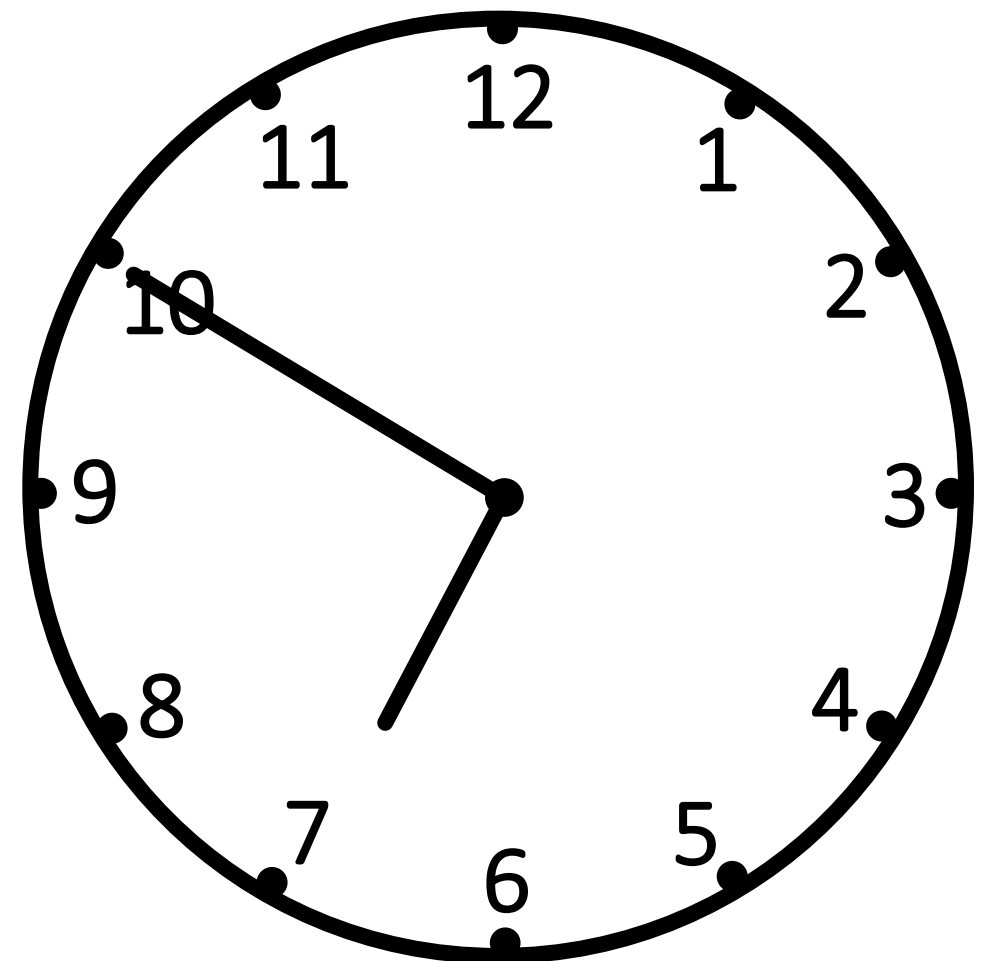
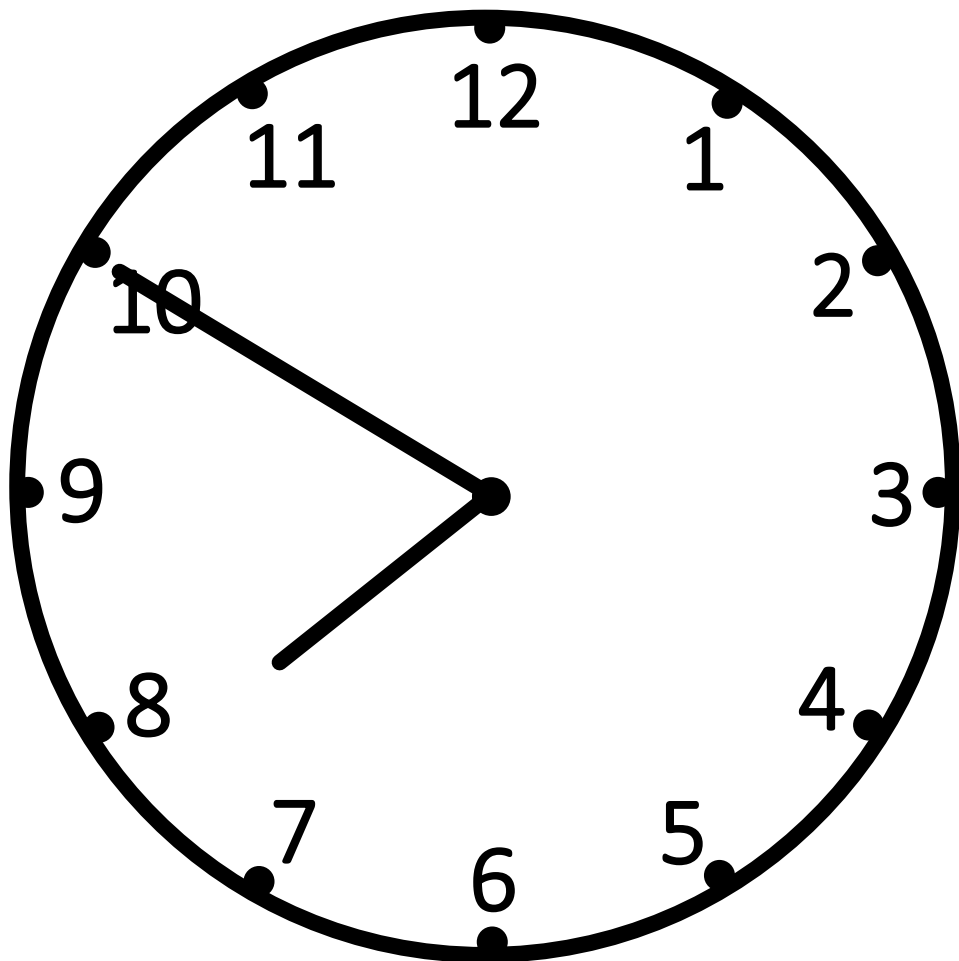
Reading Clocks

Part 1

Which clock shows **9:05**?



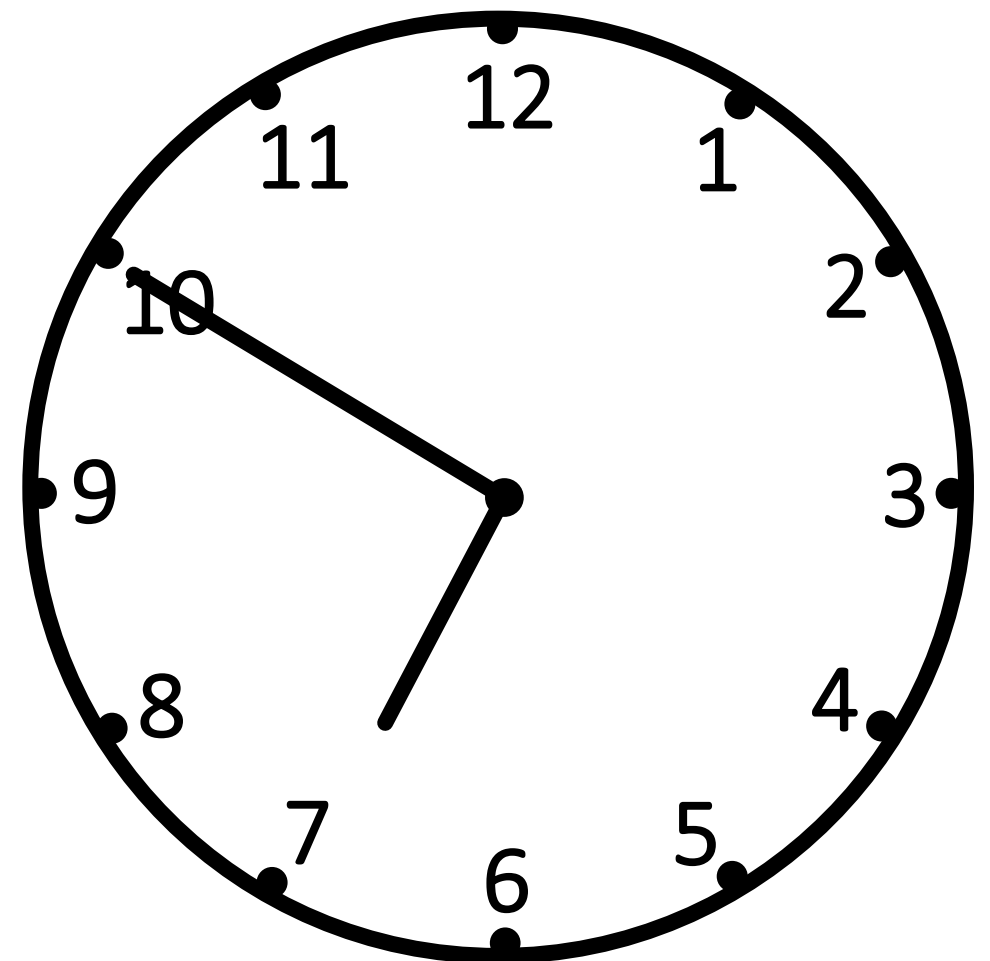
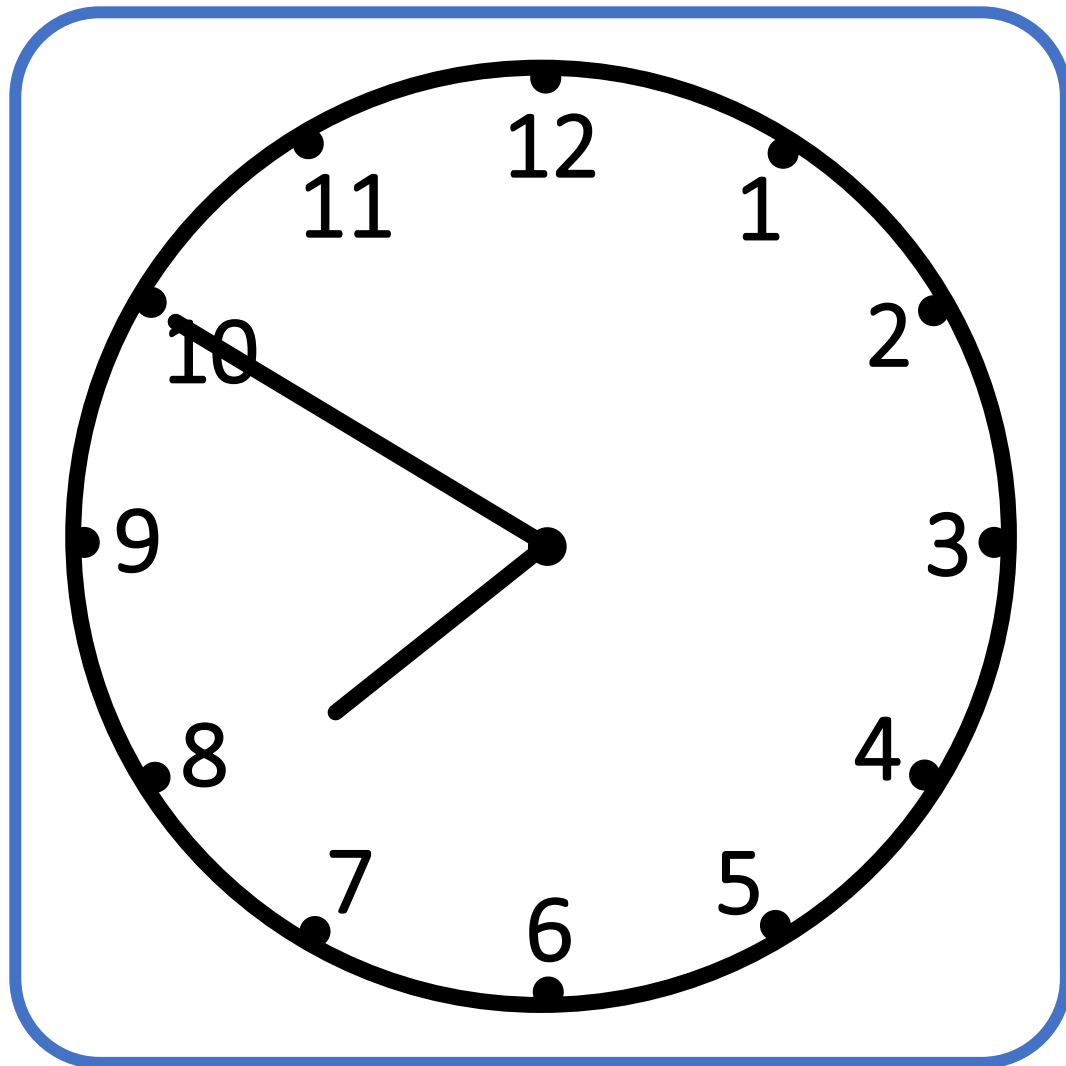
Which clock shows **7:50**?



Reading Clocks

Part 1

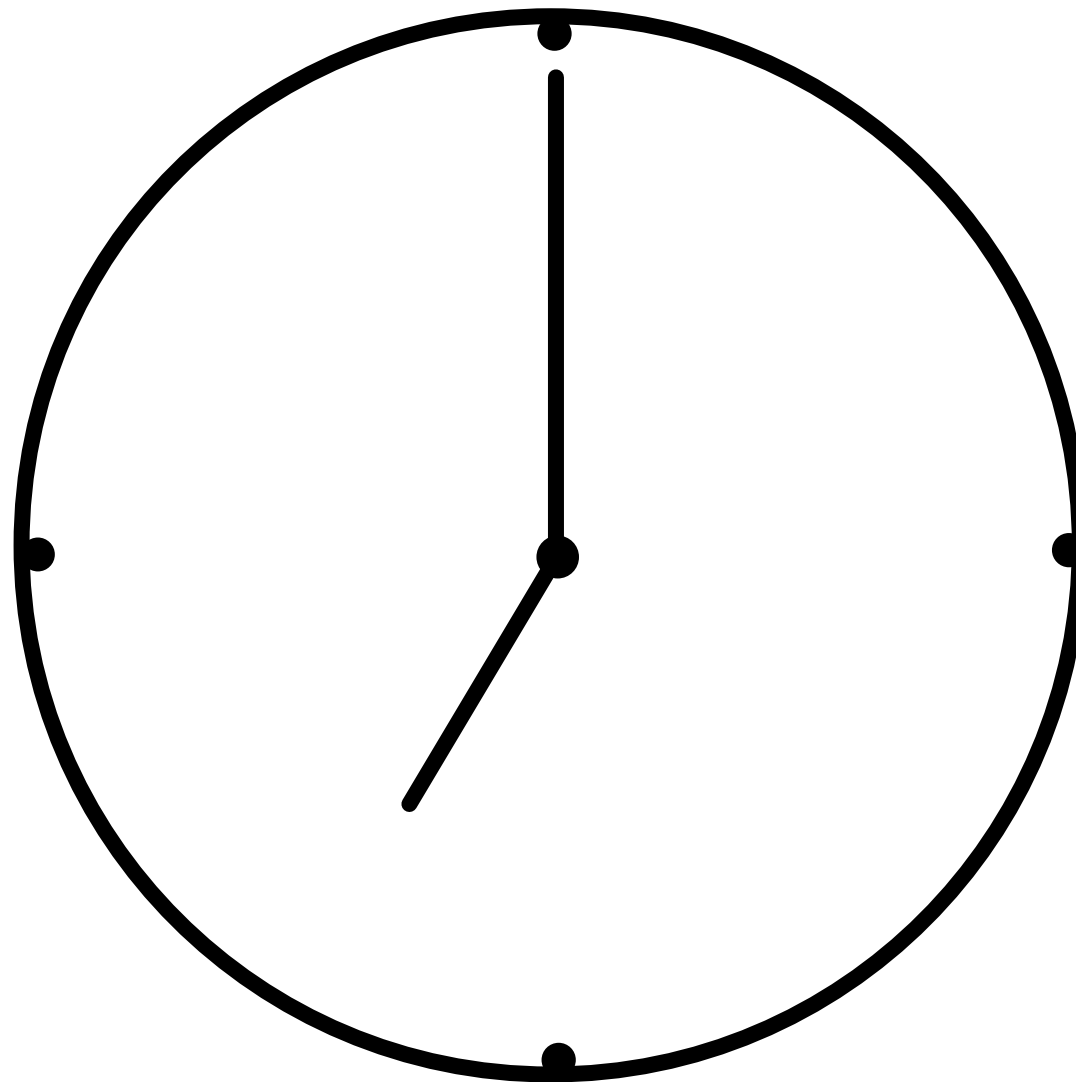
Which clock shows **7:50**?



Reading Clocks

Part 2

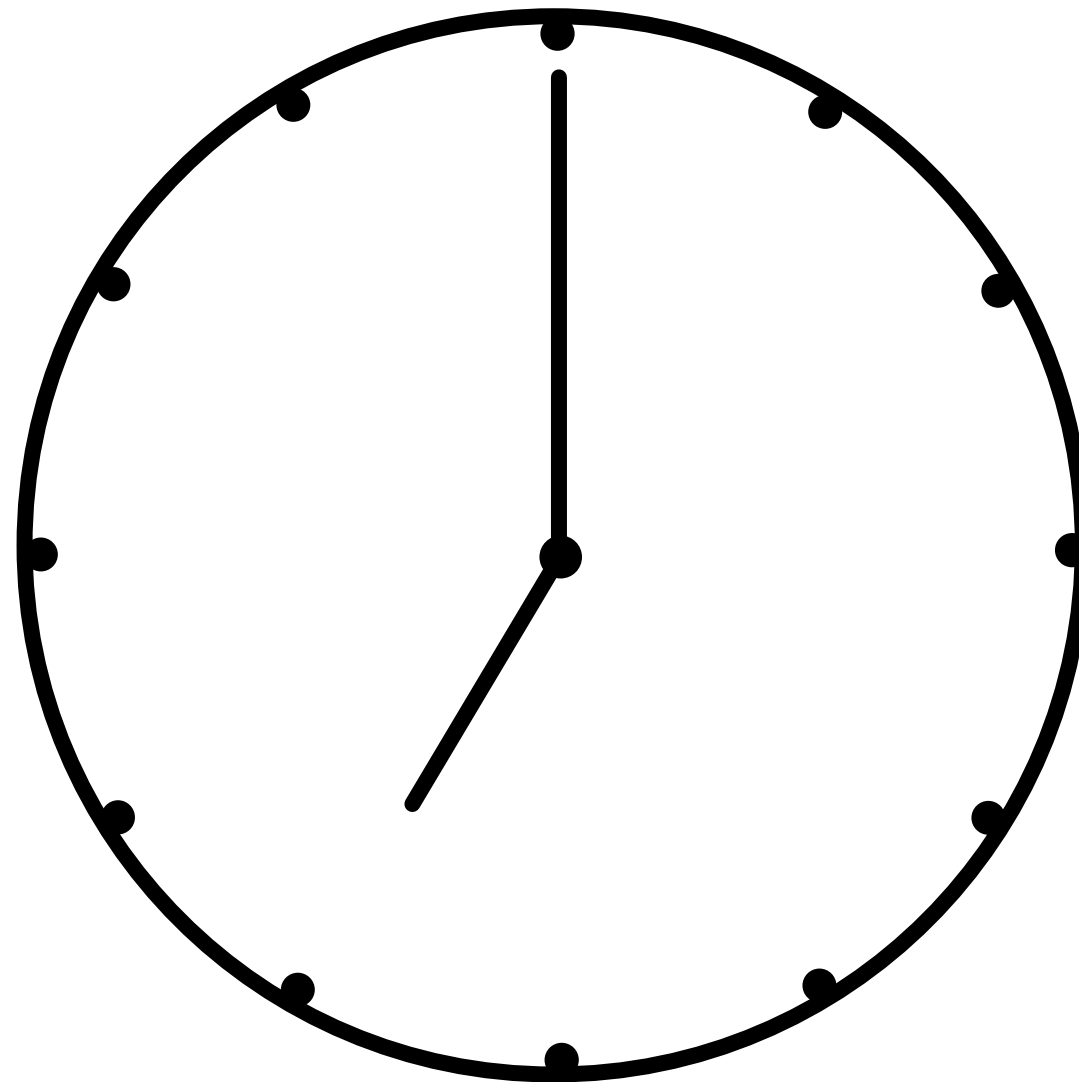
The time is



Reading Clocks

Part 2

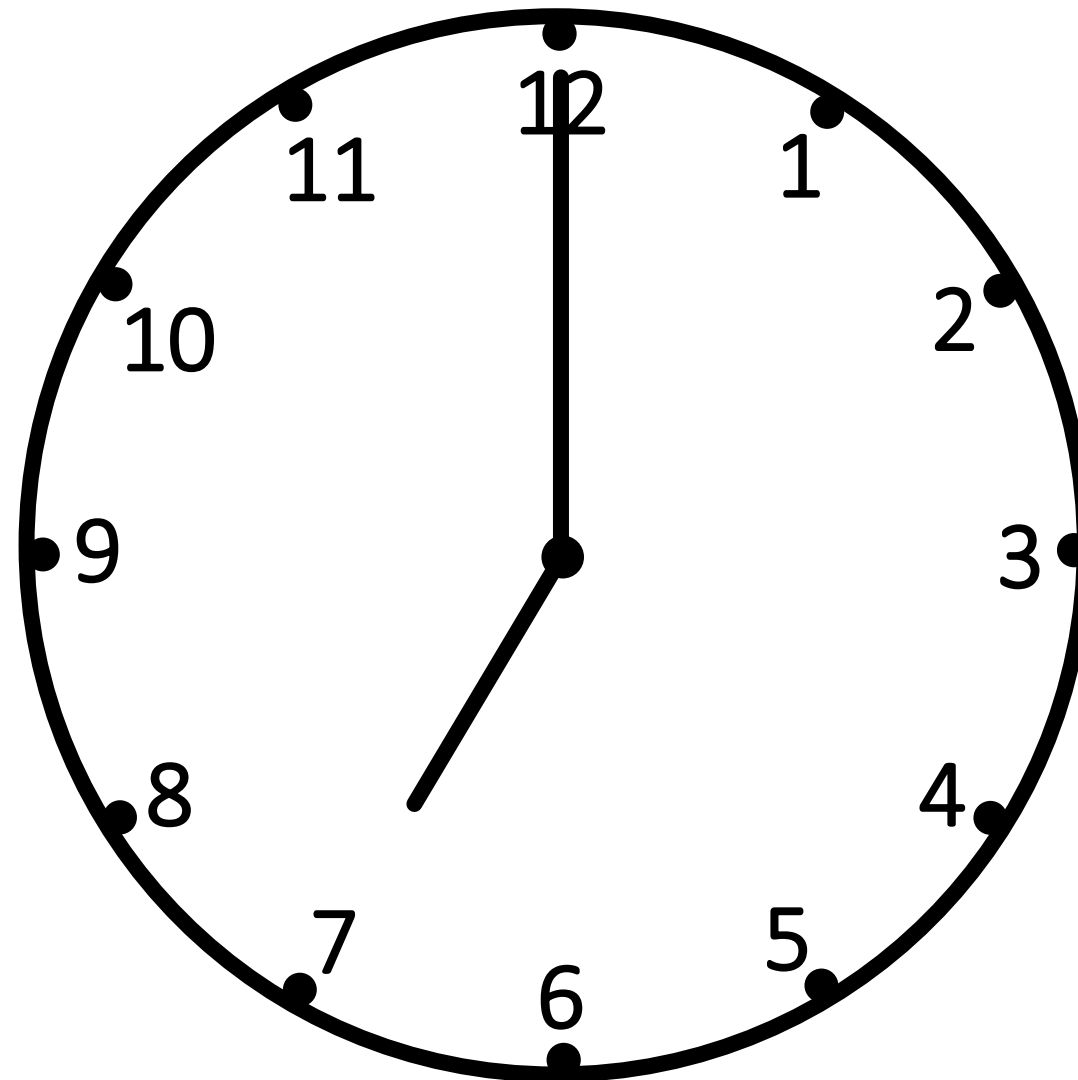
The time is



Reading Clocks

Part 2

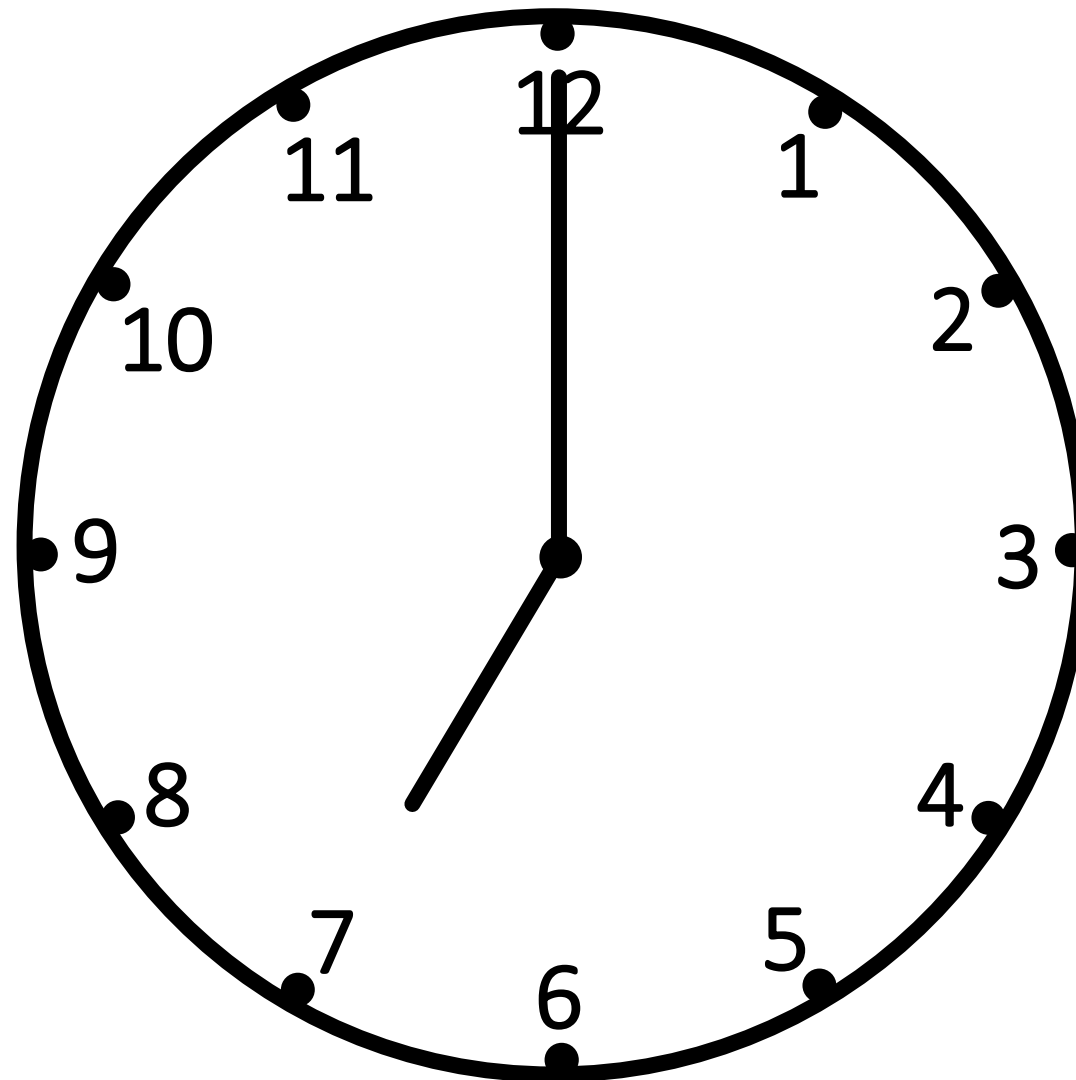
The time is



Reading Clocks

Part 2

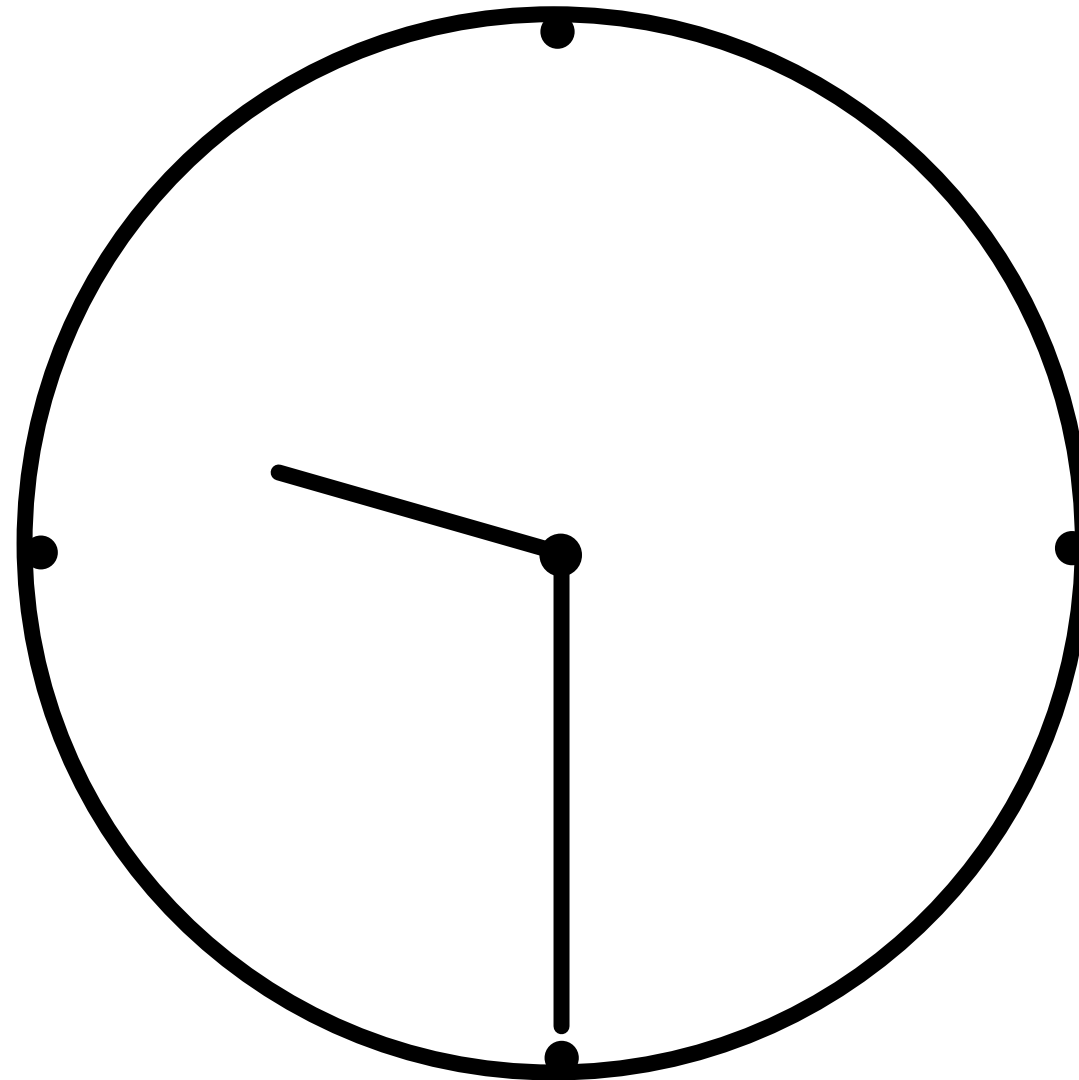
The time is **7:00**



Reading Clocks

Part 2

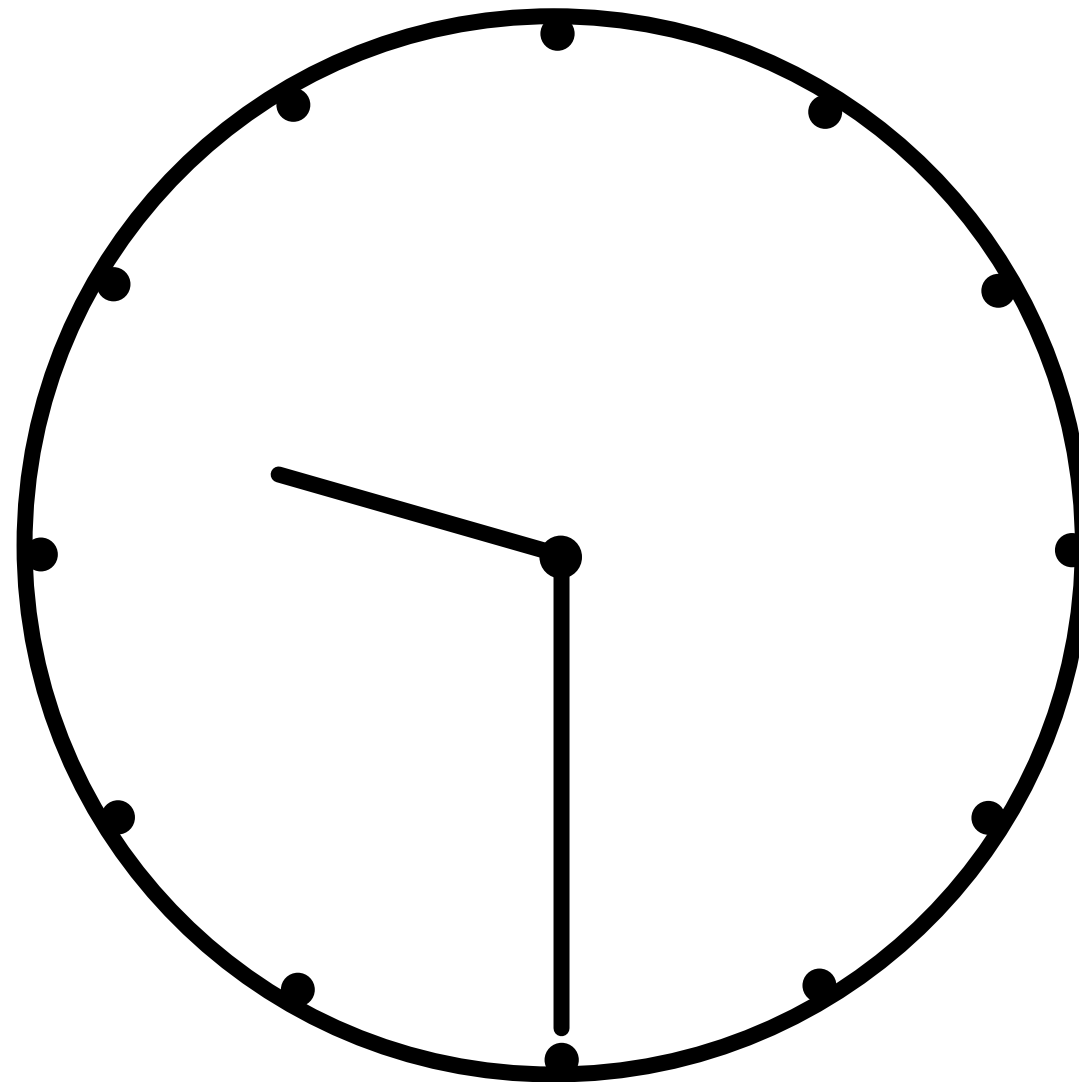
The time is



Reading Clocks

Part 2

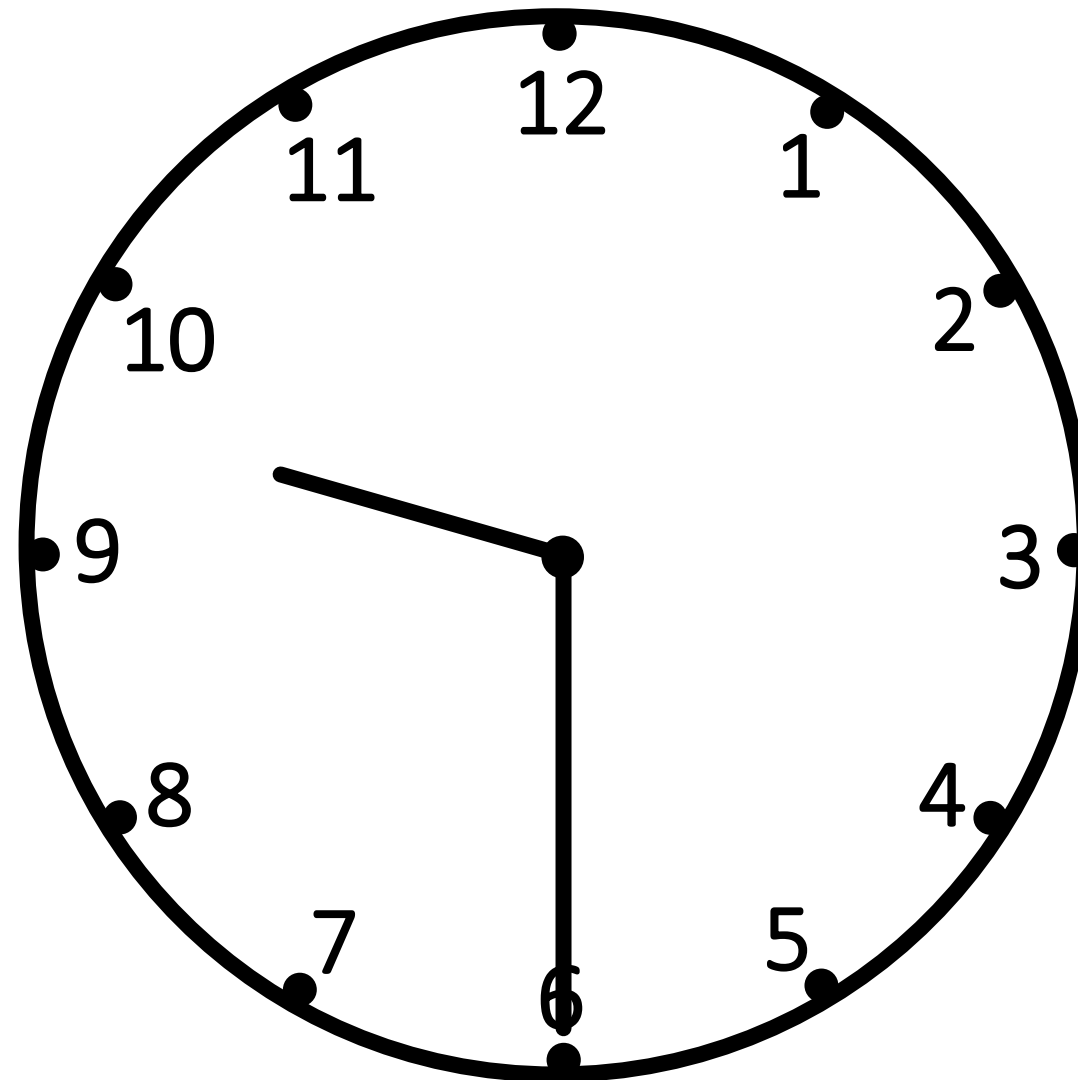
The time is



Reading Clocks

Part 2

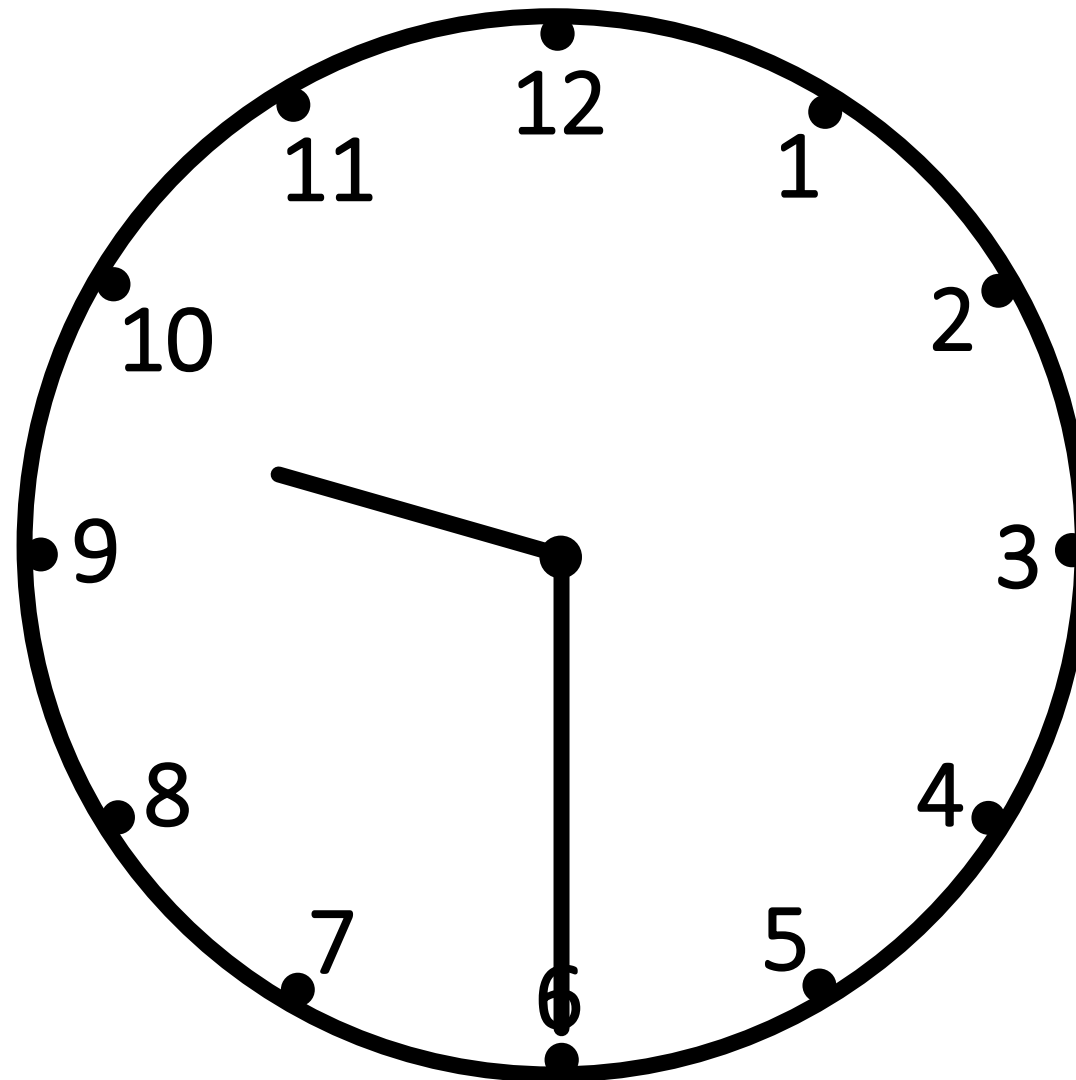
The time is



Reading Clocks

Part 2

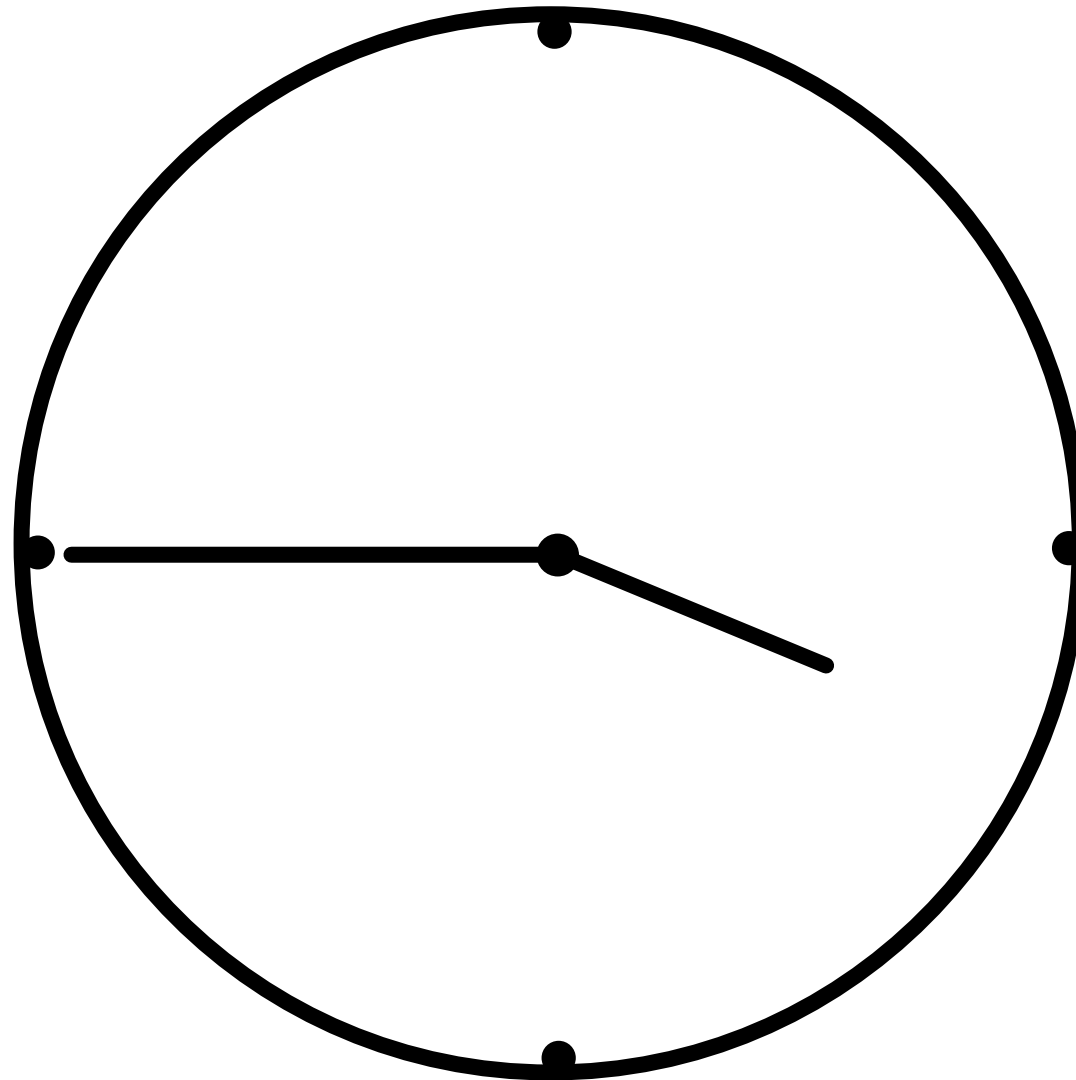
The time is **9:30**



Reading Clocks

Part 2

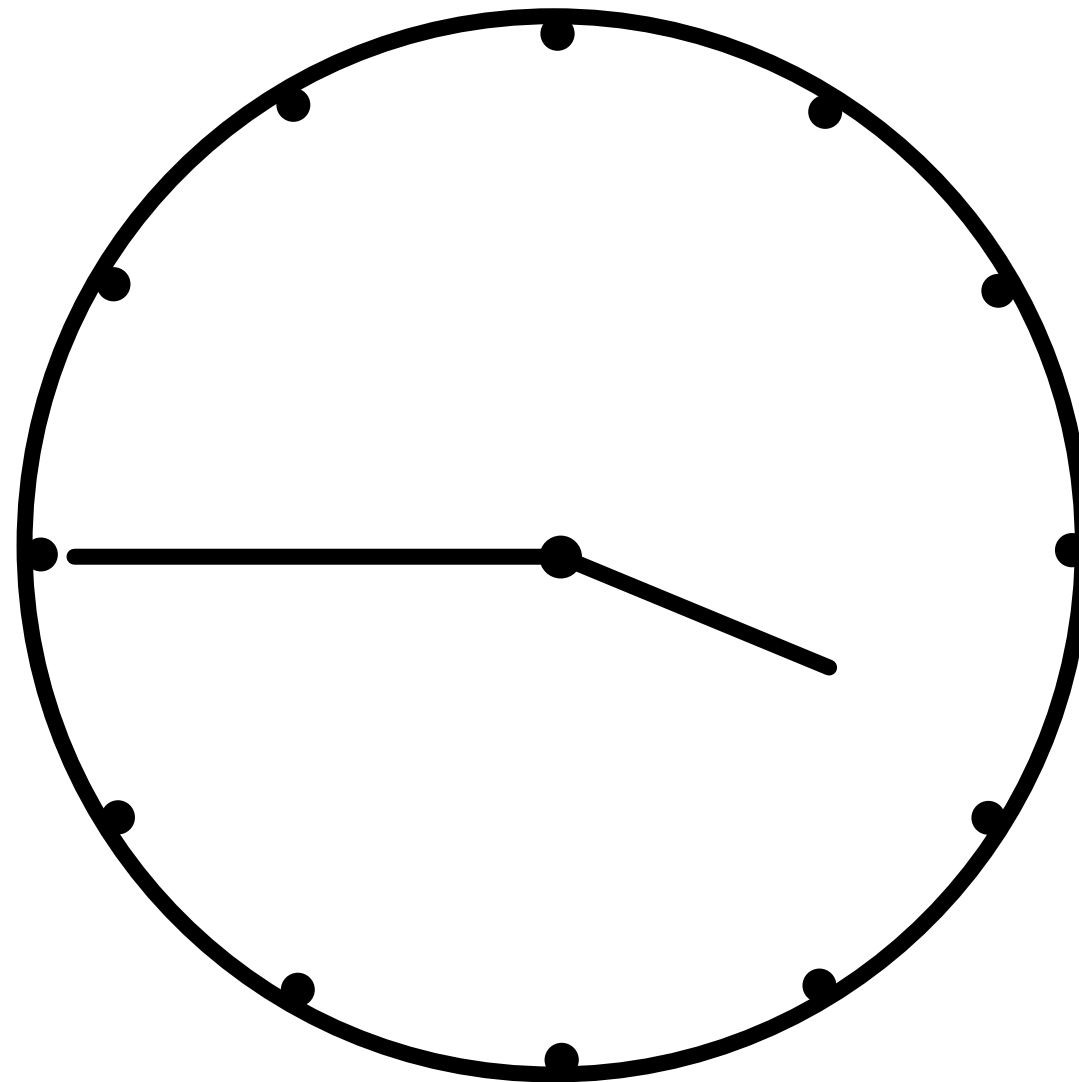
The time is



Reading Clocks

Part 2

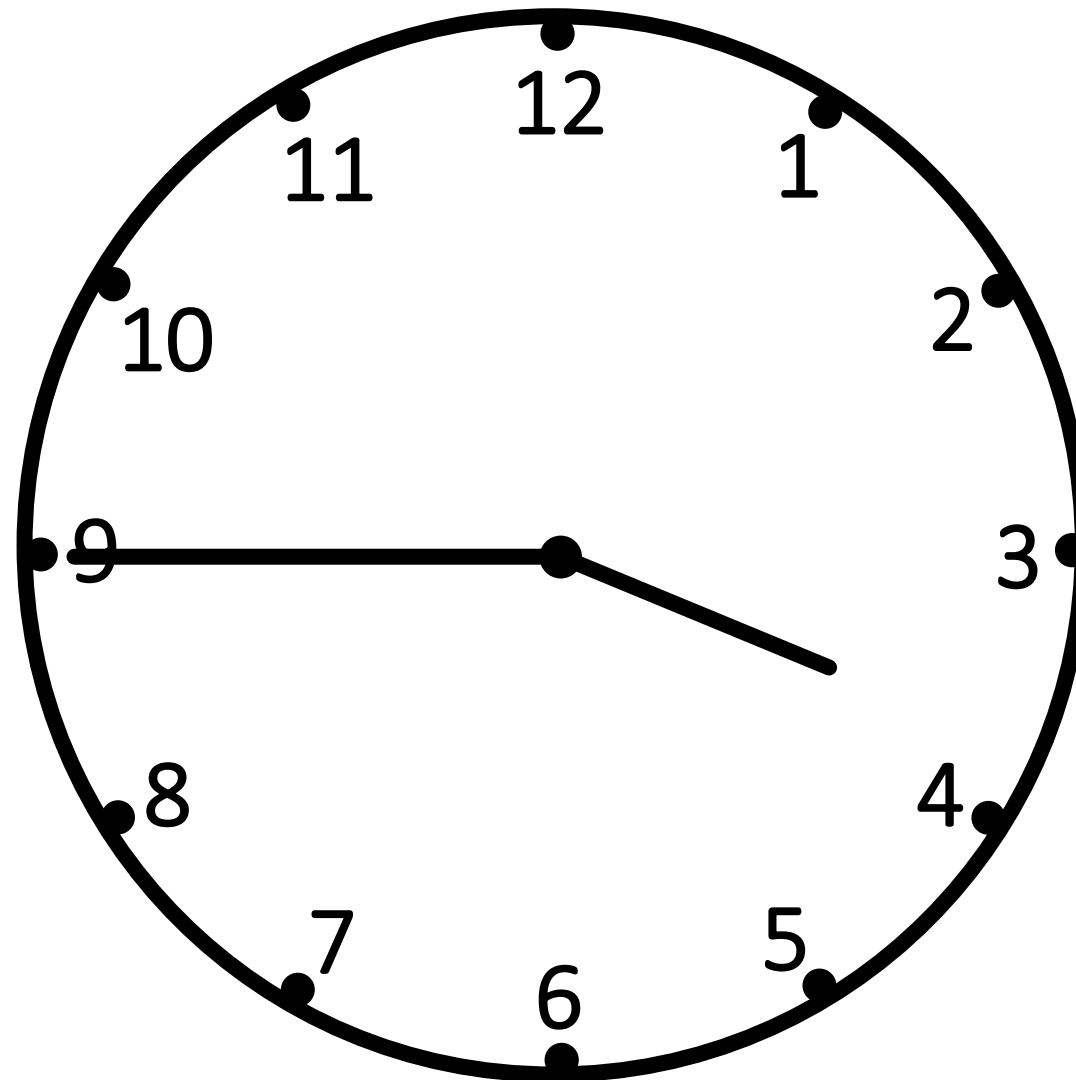
The time is



Reading Clocks

Part 2

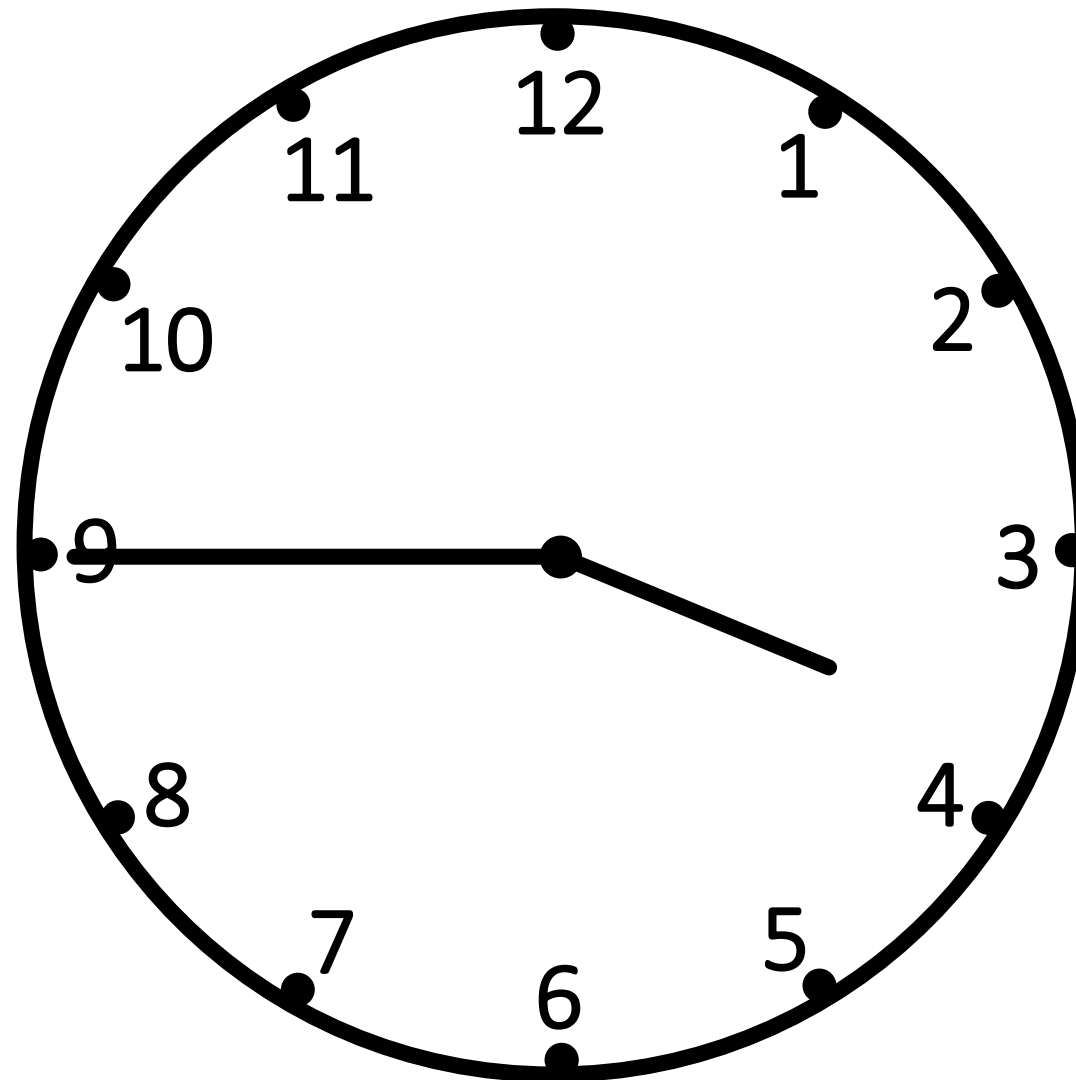
The time is



Reading Clocks

Part 2

The time is **3:45**

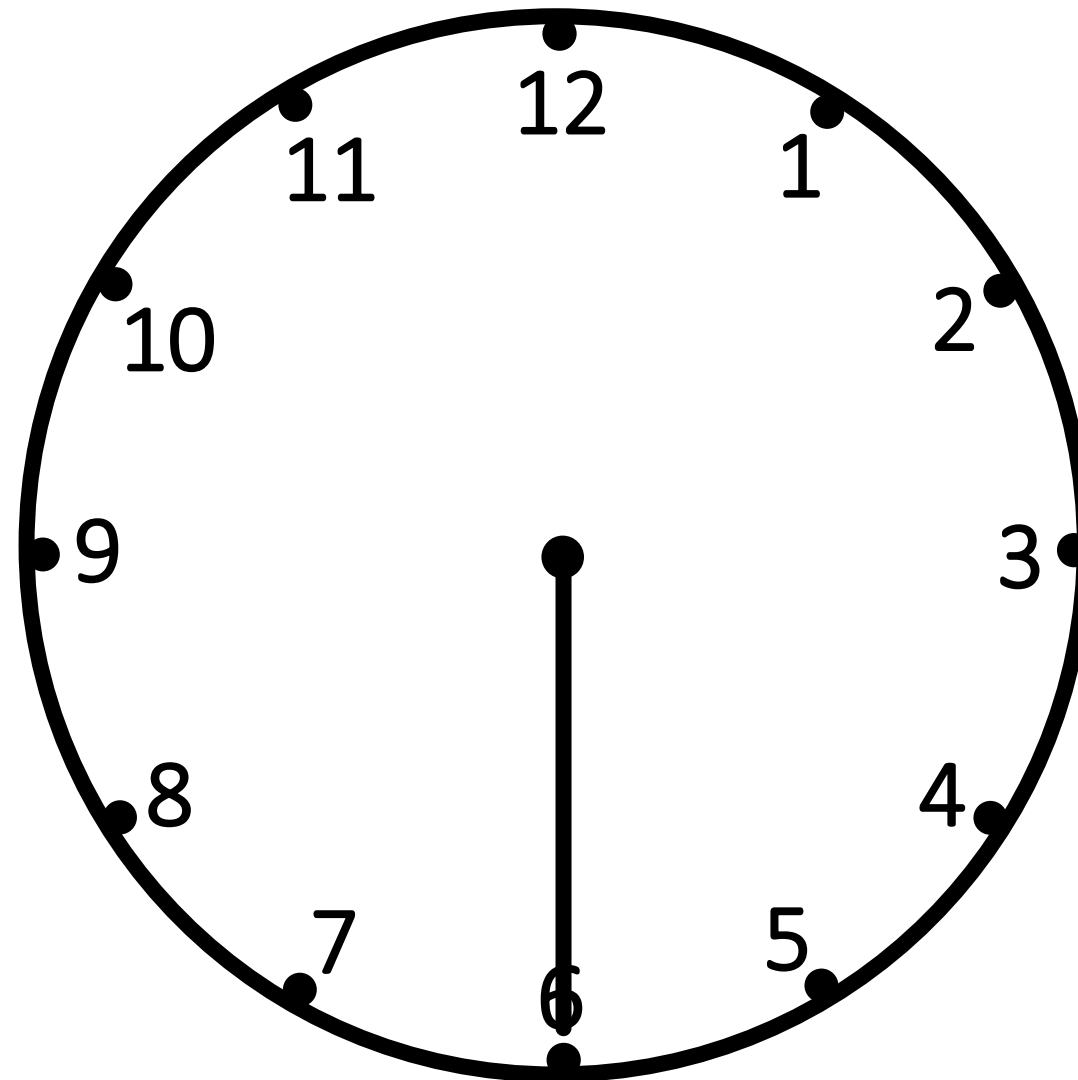


Reading Clocks

Part 3

The time is **4:30**

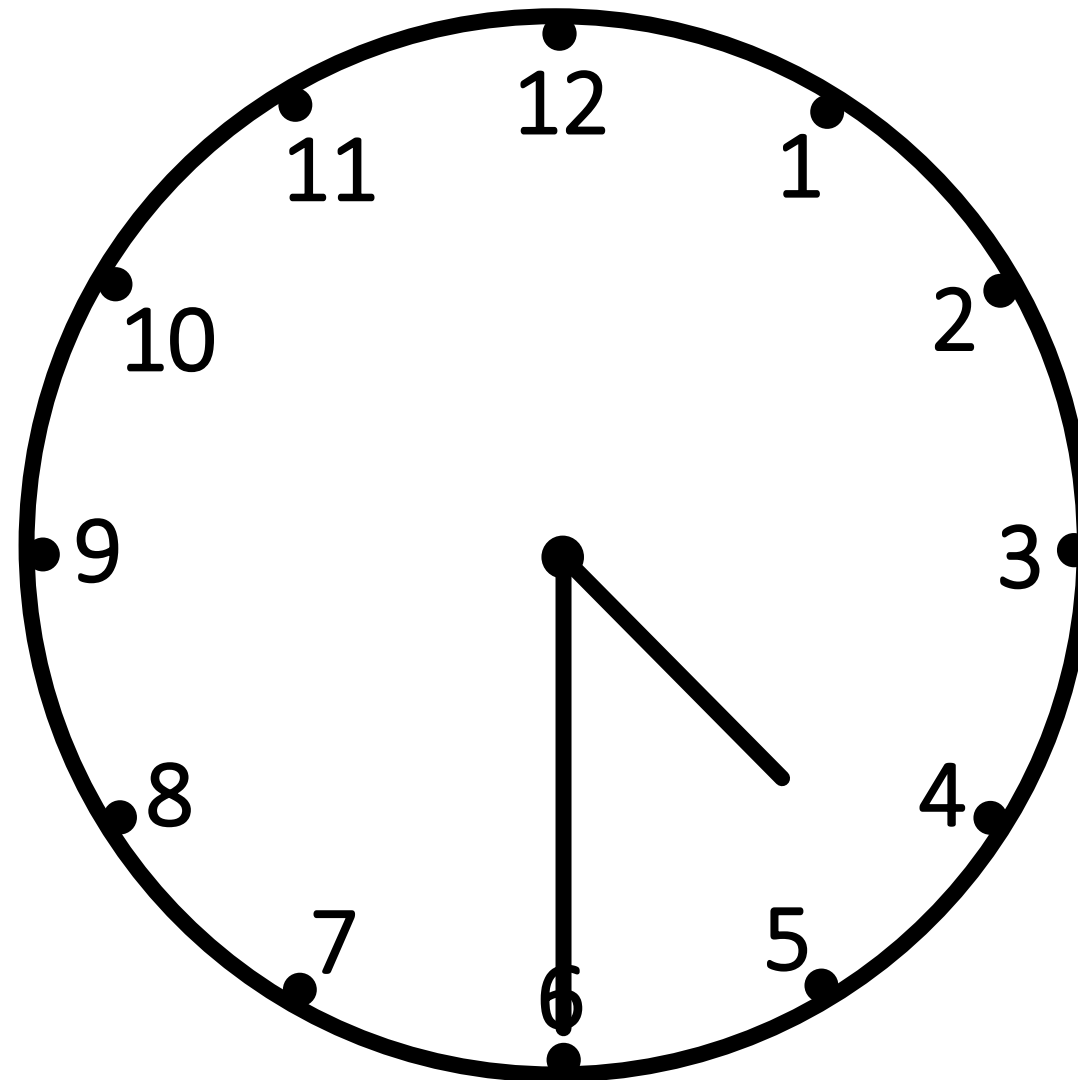
The missing hand will be...



Reading Clocks

Part 3

The time is **4:30**

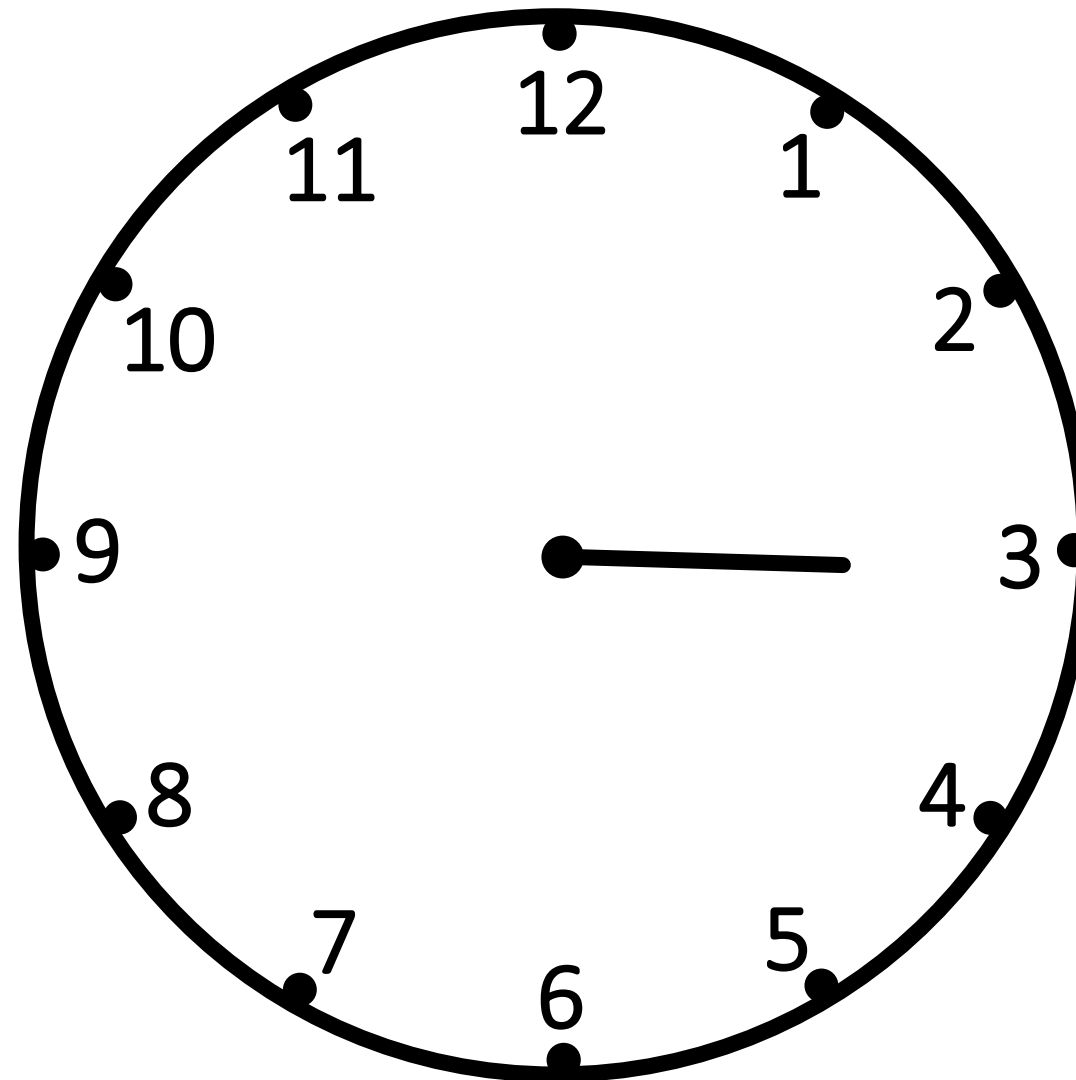


Reading Clocks

Part 3

The time is **3:02**

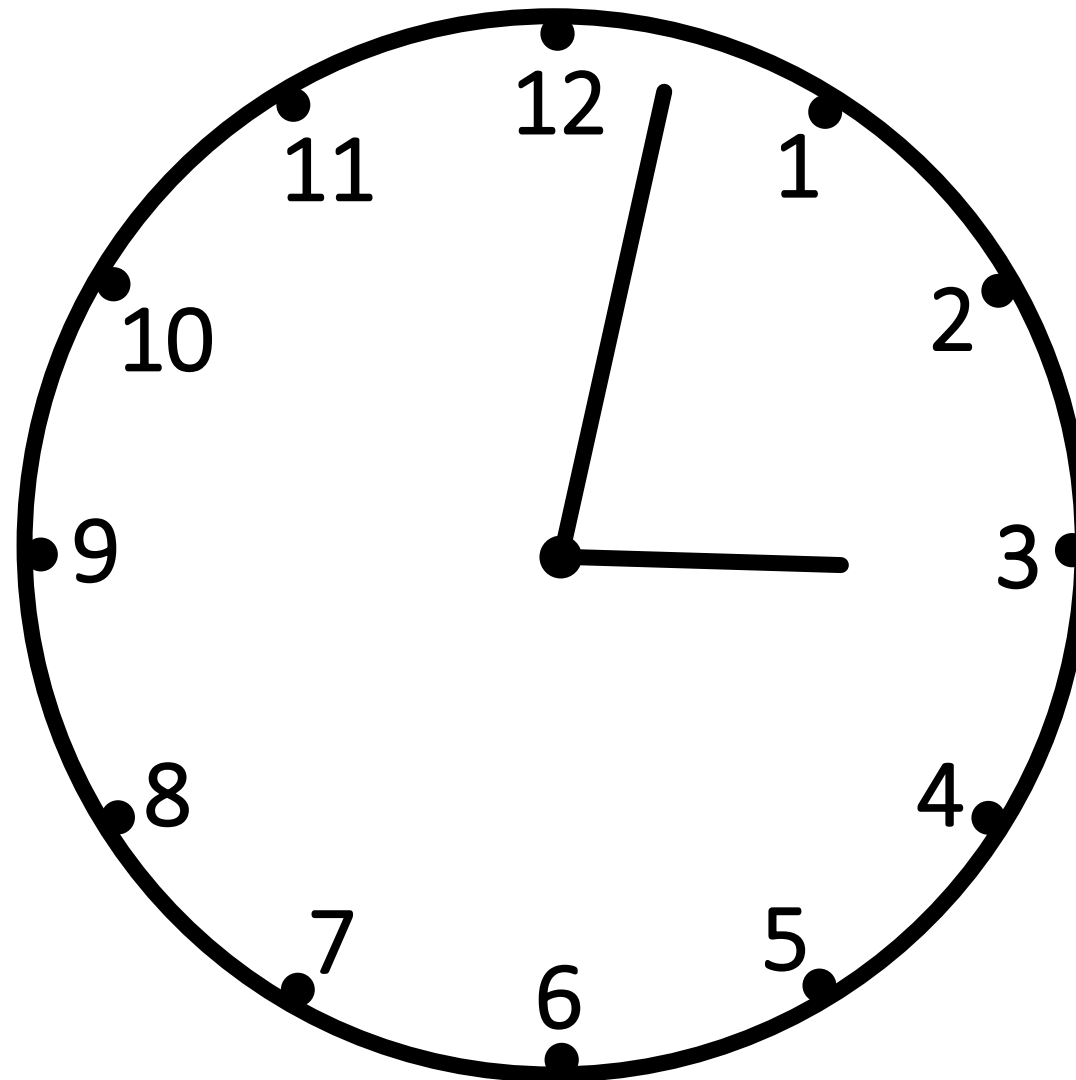
The missing hand will be...



Reading Clocks

Part 3

The time is **3:02**

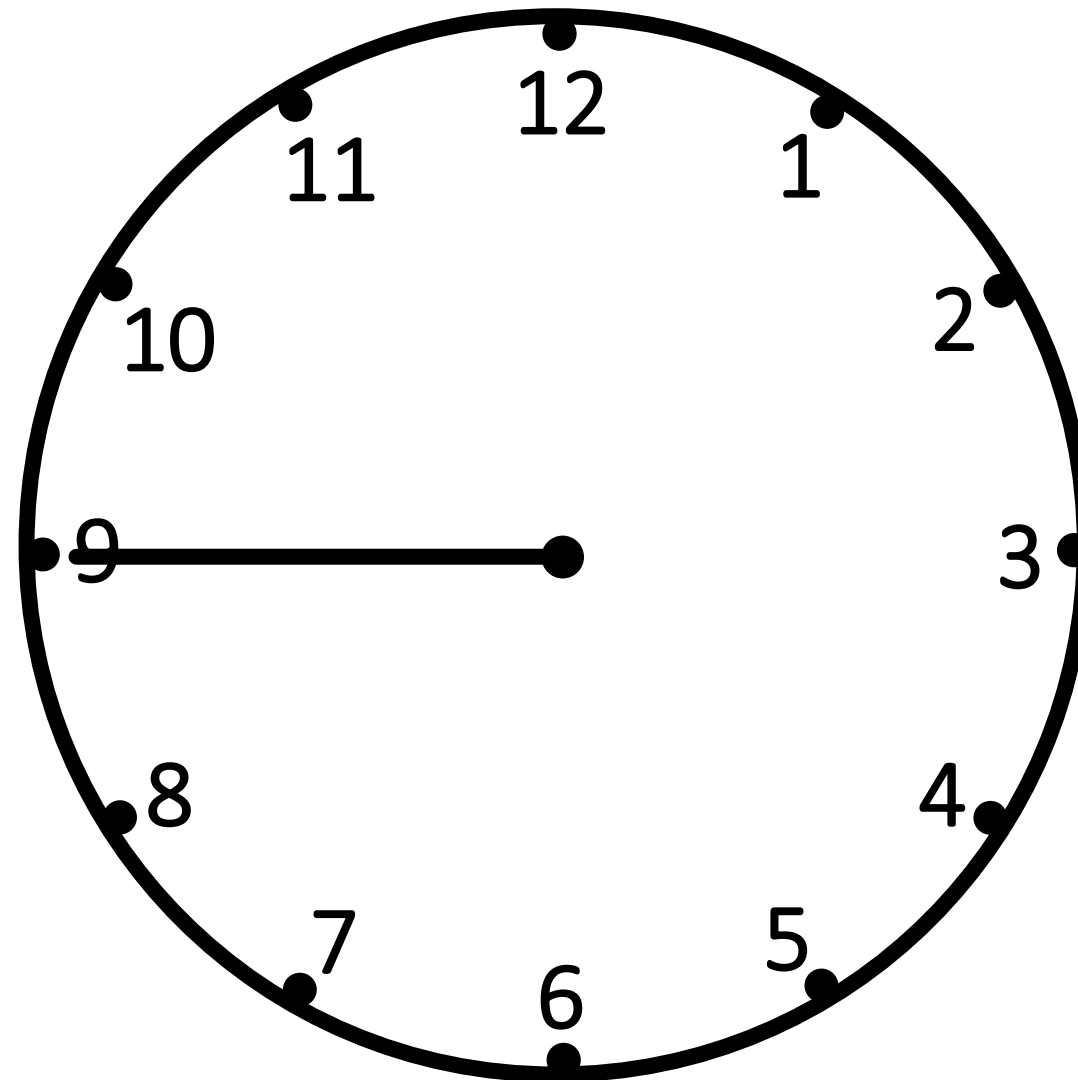


Reading Clocks

Part 3

The time is **2:45**

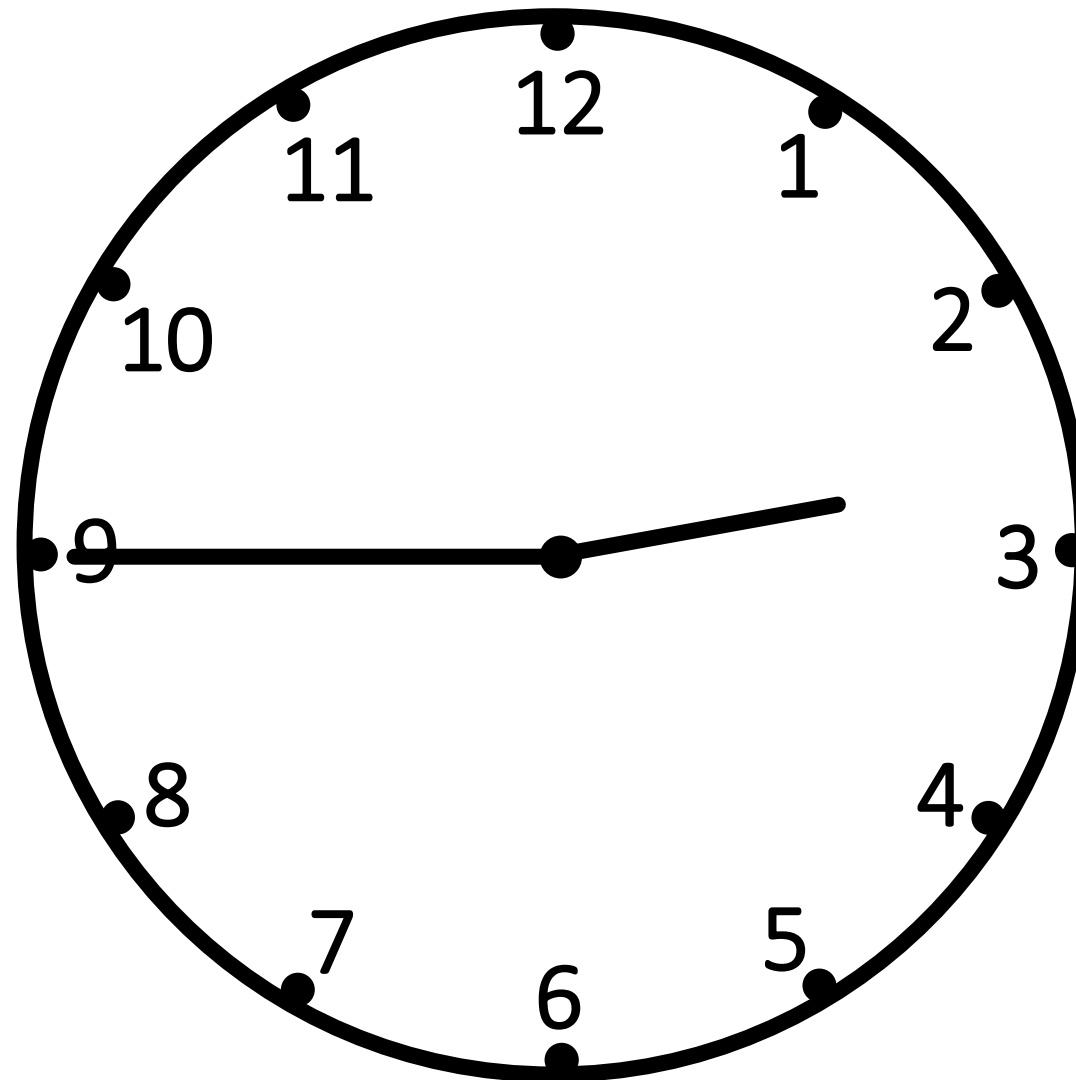
The missing hand will be...



Reading Clocks

Part 3

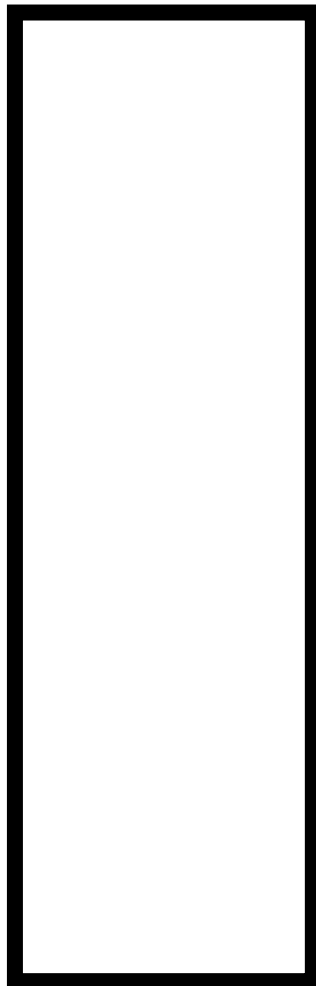
The time is **2:45**



Shape Properties

Part 1

Describe the shape:



4 sides: Quadrilateral

5 sides: Pentagon

6 sides: Hexagon

Lines of symmetry:

All sides equal length?

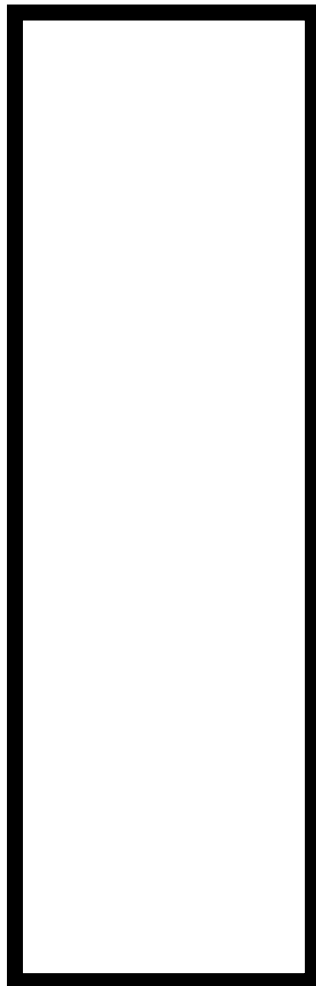
Straight sides?

I notice...

Shape Properties

Part 1

Describe the shape:

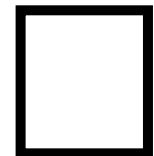


4 sides: Quadrilateral

5 sides: Pentagon

6 sides: Hexagon

Lines of symmetry:



All sides equal length?

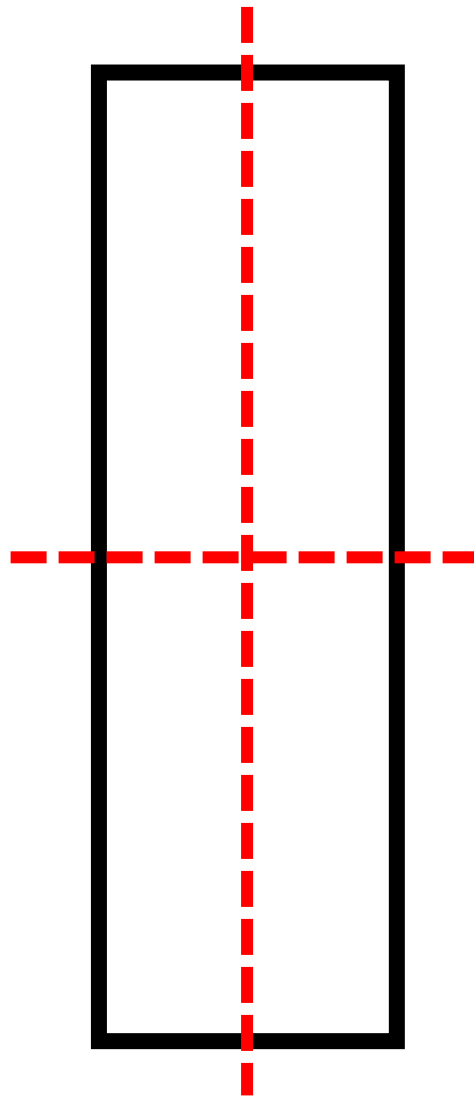
Straight sides?

I notice...

Shape Properties

Part 1

Describe the shape:



4 sides: Quadrilateral

5 sides: Pentagon

6 sides: Hexagon

Lines of symmetry: 2

All sides equal length?

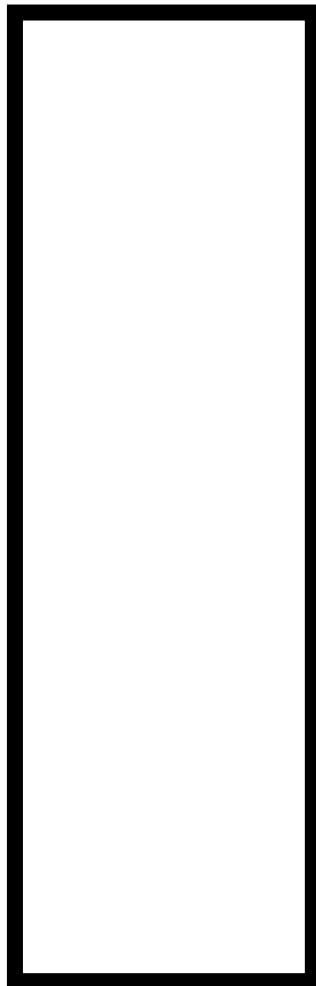
Straight sides?

I notice...

Shape Properties

Part 1

Describe the shape:



4 sides: Quadrilateral

5 sides: Pentagon

6 sides: Hexagon

Lines of symmetry: 2

All sides equal length? ✘

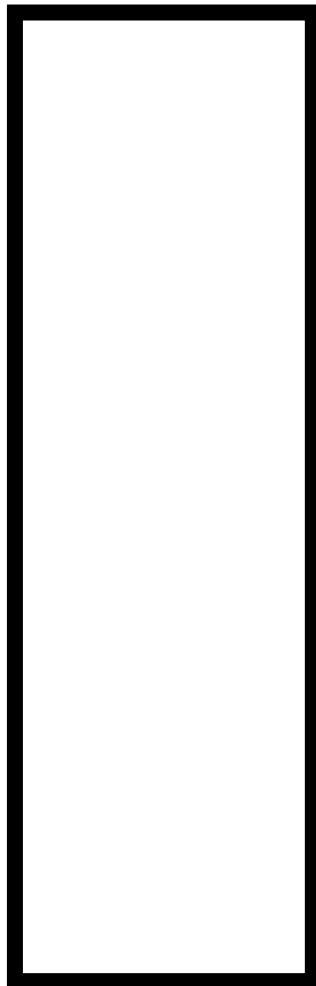
Straight sides?

I notice...

Shape Properties

Part 1

Describe the shape:



4 sides: Quadrilateral

5 sides: Pentagon

6 sides: Hexagon

Lines of symmetry: 2

All sides equal length? ✘

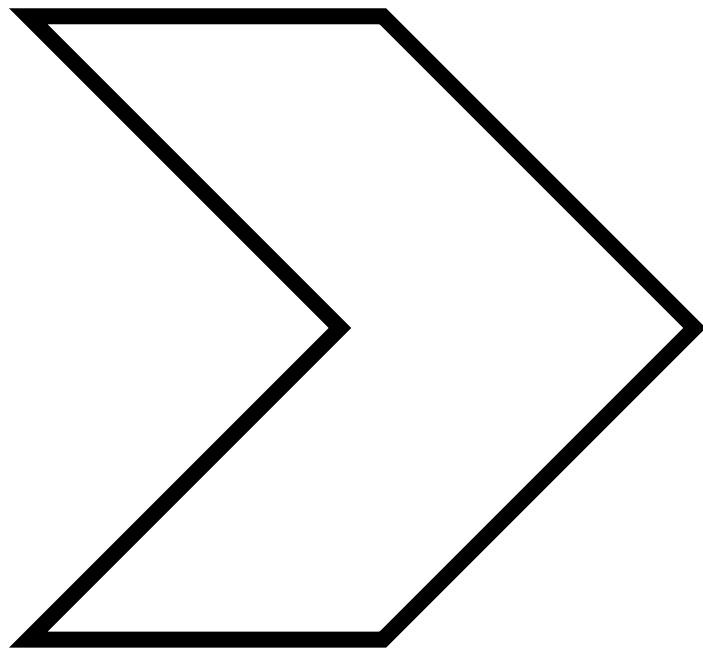
Straight sides? ✓

I notice...

Shape Properties

Part 1

Describe the shape:



4 sides: Quadrilateral

5 sides: Pentagon

6 sides: Hexagon

Lines of symmetry:

All sides equal length?

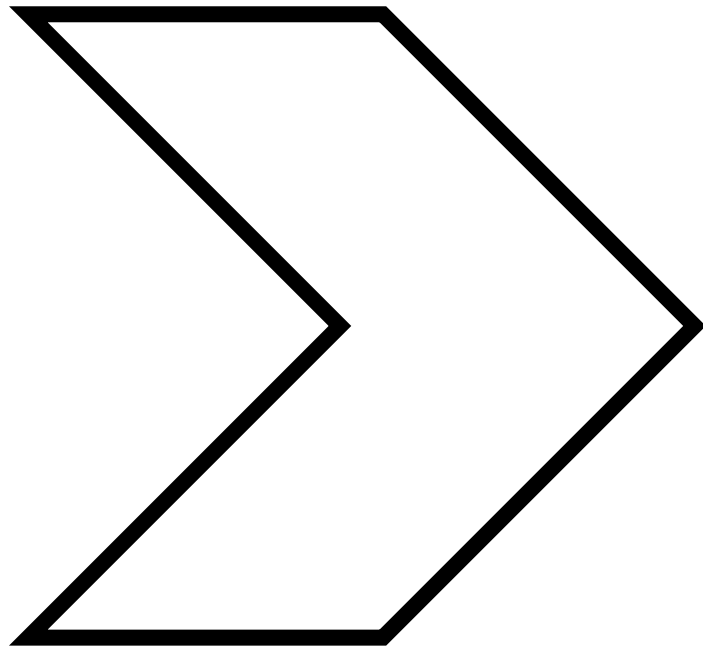
Straight sides?

I notice...

Shape Properties

Part 1

Describe the shape:

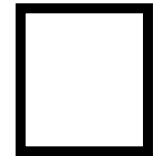


4 sides: Quadrilateral

5 sides: Pentagon

6 sides: Hexagon

Lines of symmetry:



All sides equal length?

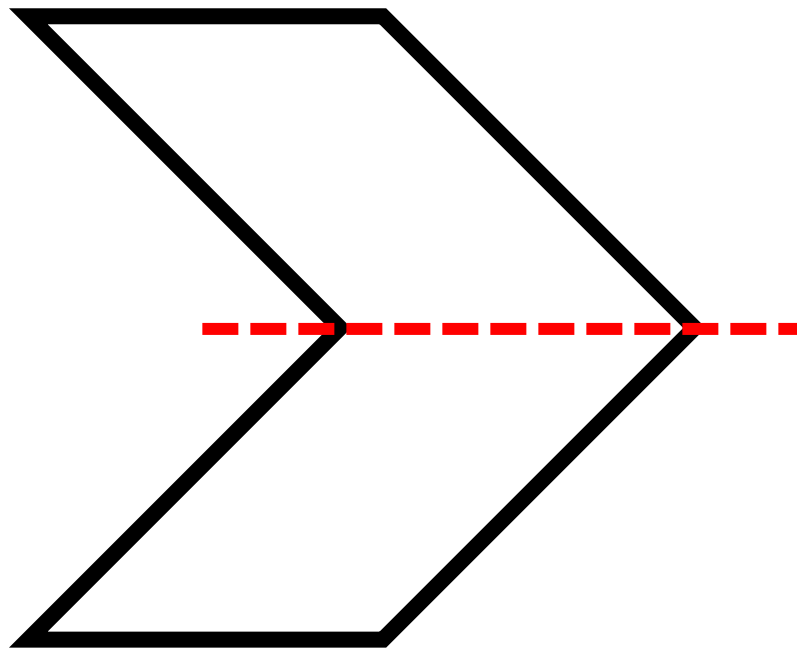
Straight sides?

I notice...

Shape Properties

Part 1

Describe the shape:



4 sides: Quadrilateral

5 sides: Pentagon

6 sides: Hexagon

Lines of symmetry:

1

All sides equal length?

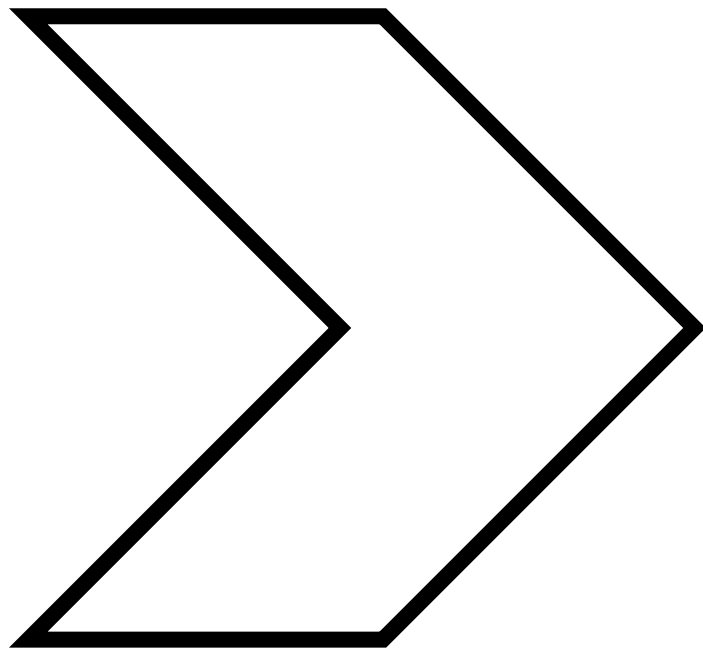
Straight sides?

I notice...

Shape Properties

Part 1

Describe the shape:



4 sides: Quadrilateral

5 sides: Pentagon

6 sides: Hexagon

Lines of symmetry:

1

All sides equal length? \times

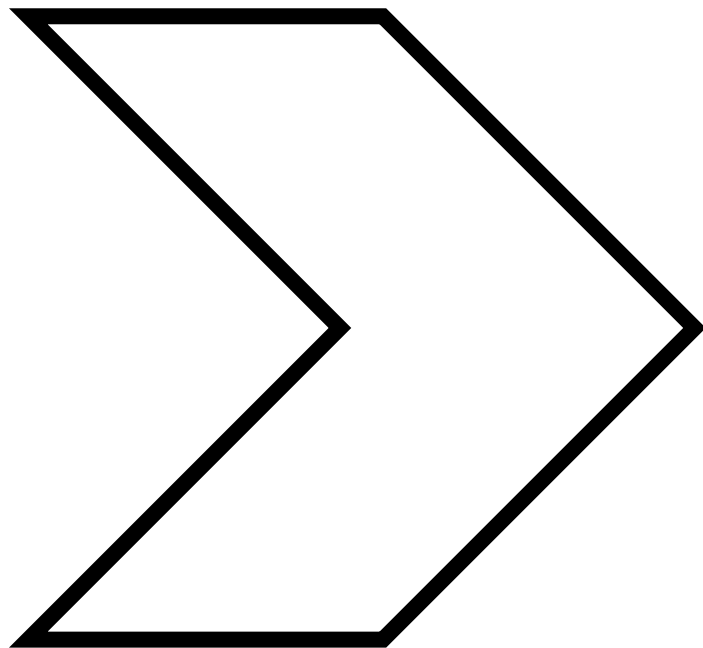
Straight sides?

I notice...

Shape Properties

Part 1

Describe the shape:



4 sides: Quadrilateral

5 sides: Pentagon

6 sides: Hexagon

Lines of symmetry:

1

All sides equal length? ✗

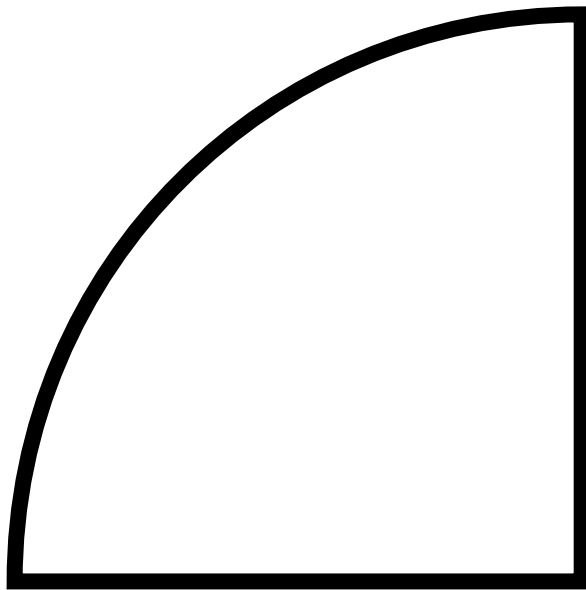
Straight sides? ✓

I notice...

Shape Properties

Part 1

Describe the shape:



4 sides: Quadrilateral

5 sides: Pentagon

6 sides: Hexagon

Lines of symmetry:

All sides equal length?

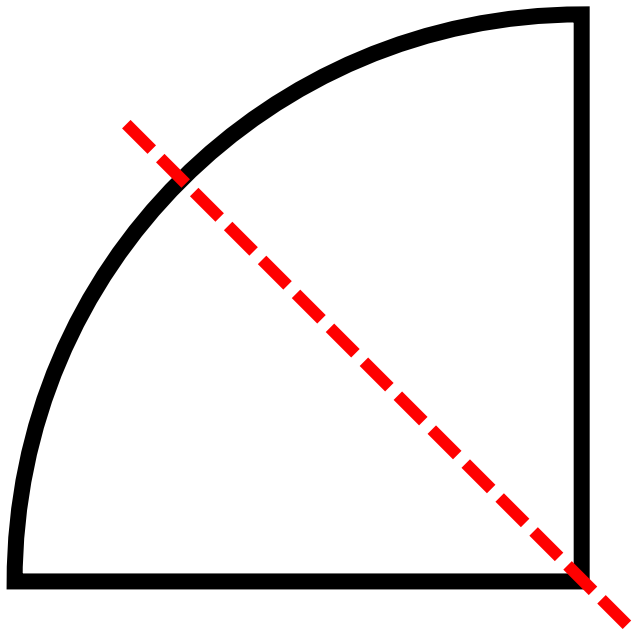
Straight sides?

I notice...

Shape Properties

Part 1

Describe the shape:



4 sides: Quadrilateral

5 sides: Pentagon

6 sides: Hexagon

Lines of symmetry: 1

All sides equal length?

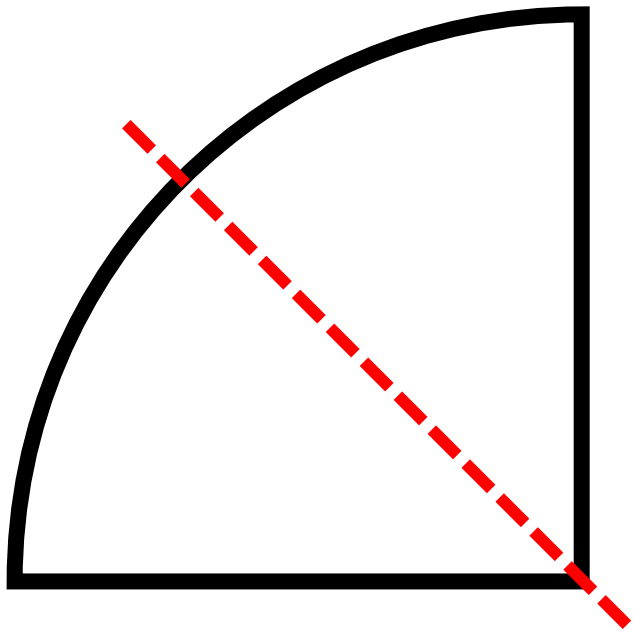
Straight sides?

I notice...

Shape Properties

Part 1

Describe the shape:



4 sides: Quadrilateral

5 sides: Pentagon

6 sides: Hexagon

Lines of symmetry: 1

All sides equal length? ✘

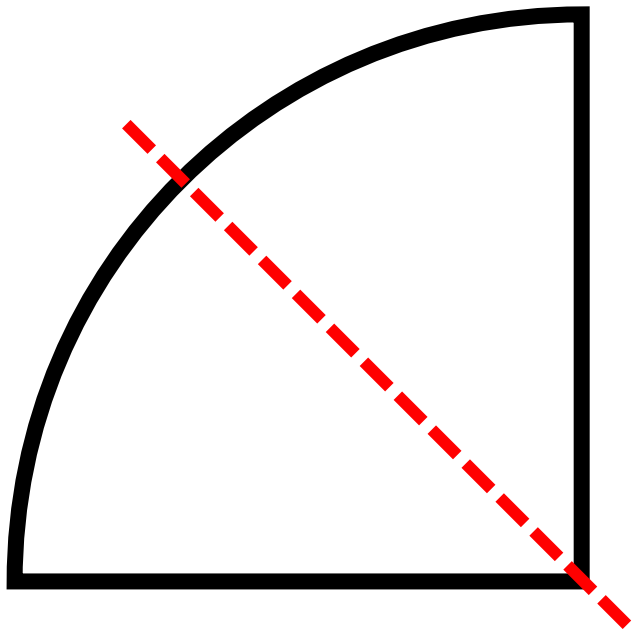
Straight sides?

I notice...

Shape Properties

Part 1

Describe the shape:



4 sides: Quadrilateral

5 sides: Pentagon

6 sides: Hexagon

Lines of symmetry: 1

All sides equal length? ✘

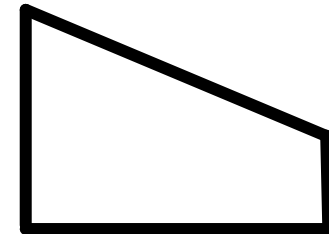
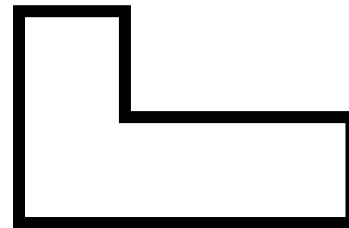
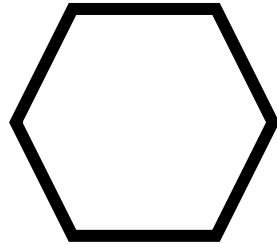
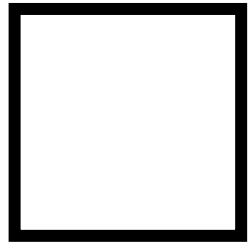
Straight sides? 1 curved side

I notice...

Shape Properties

Part 2

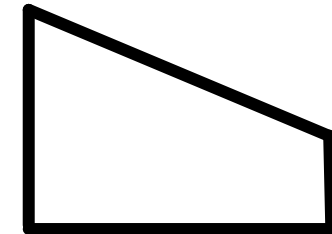
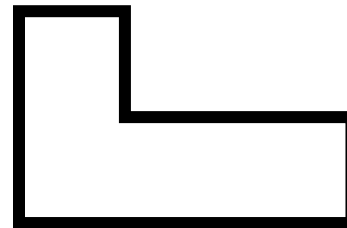
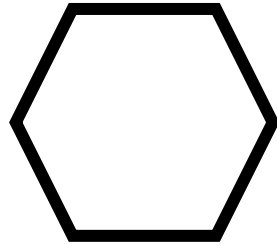
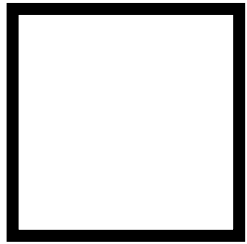
Sort the shapes:



Shape Properties

Part 2

Sort the shapes:



Hexagons

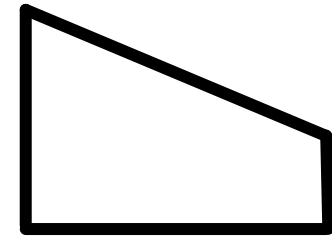
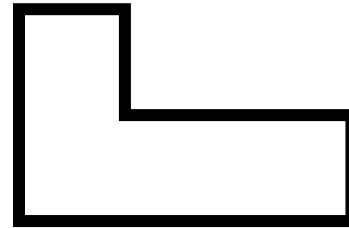
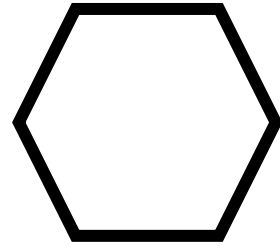
Not Hexagons



Shape Properties

Part 2

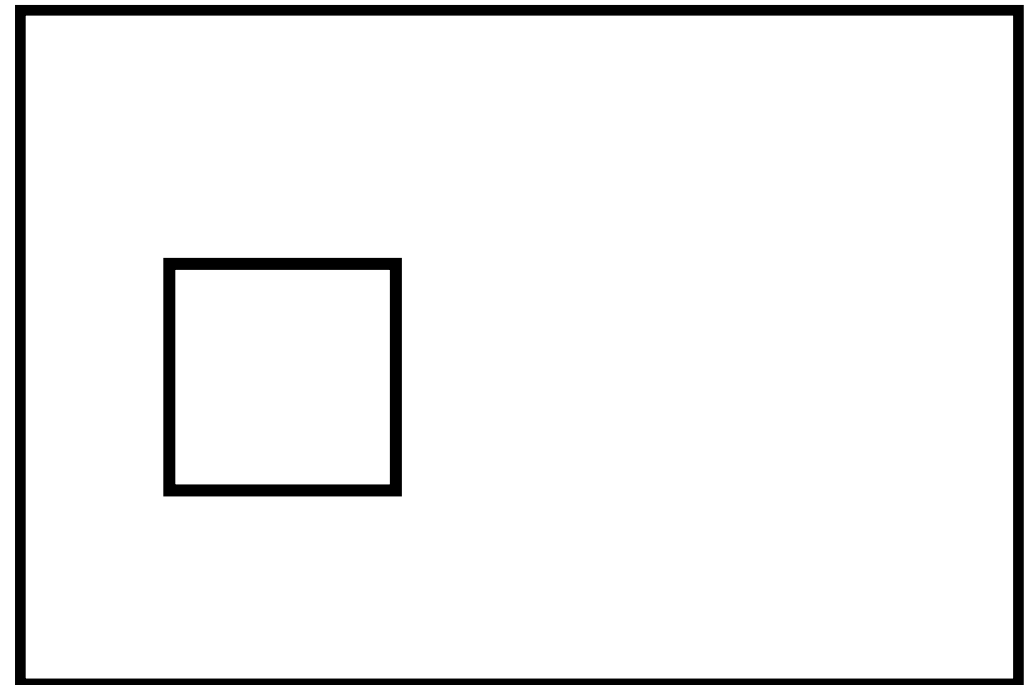
Sort the shapes:



Hexagons



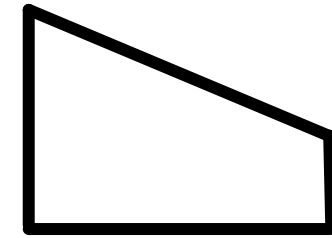
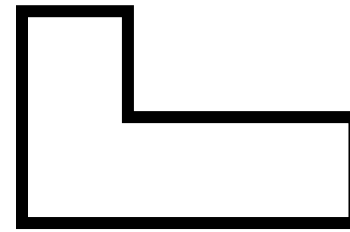
Not Hexagons



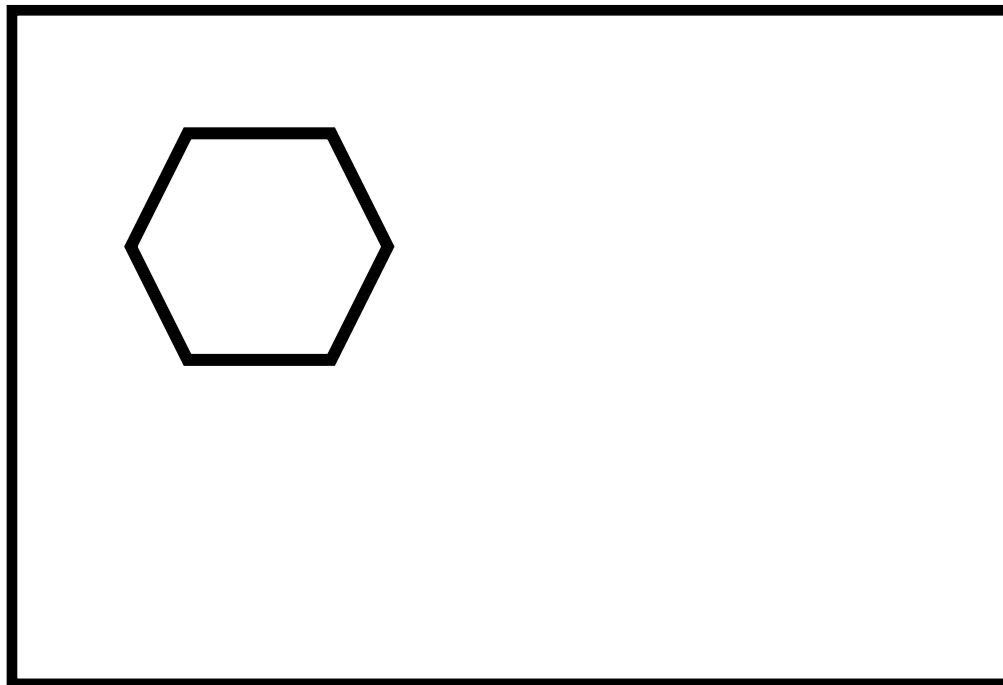
Shape Properties

Part 2

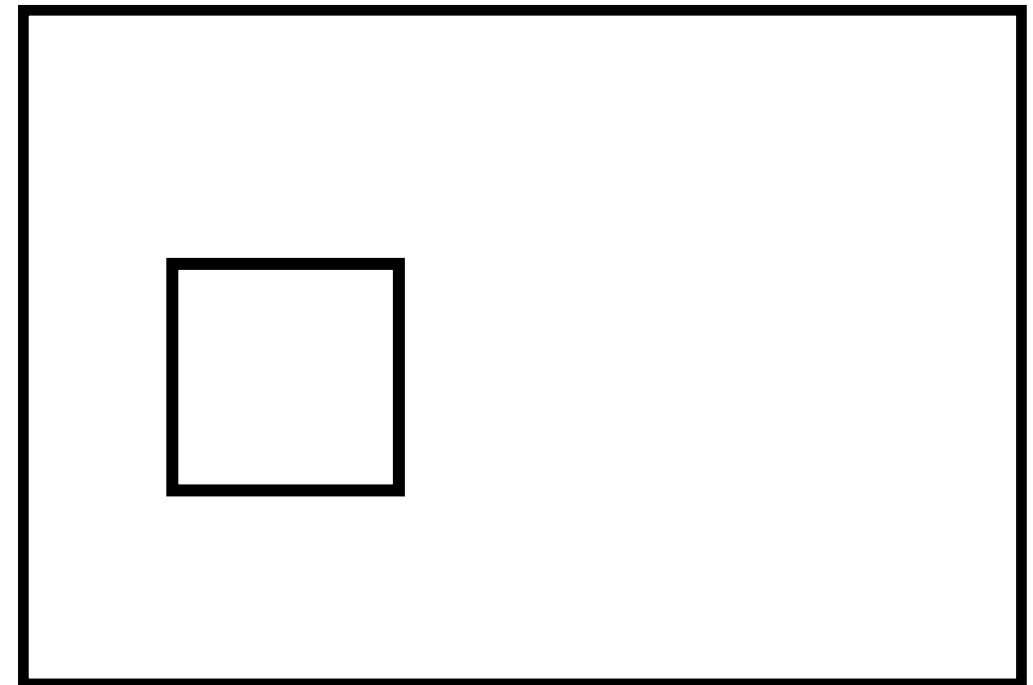
Sort the shapes:



Hexagons



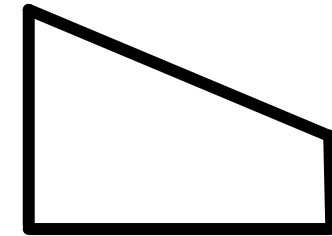
Not Hexagons



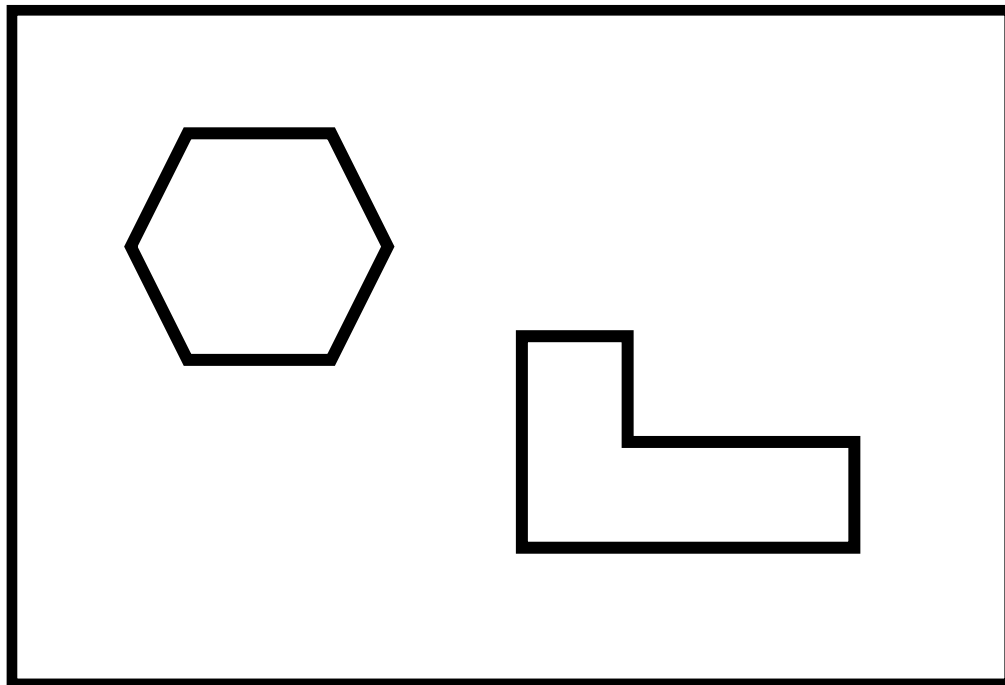
Shape Properties

Part 2

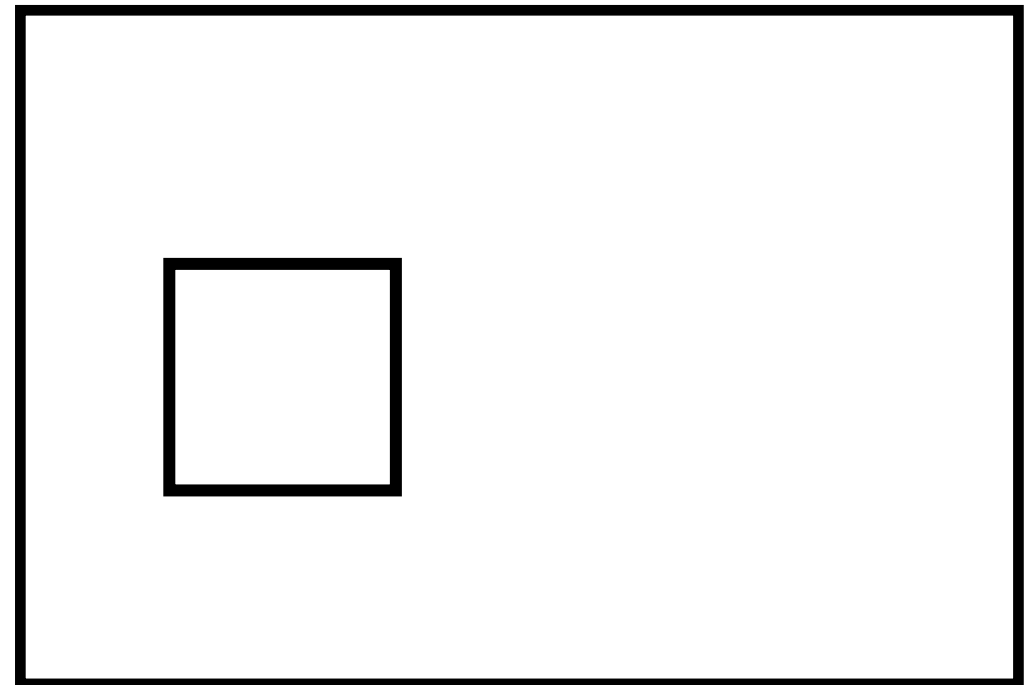
Sort the shapes:



Hexagons



Not Hexagons

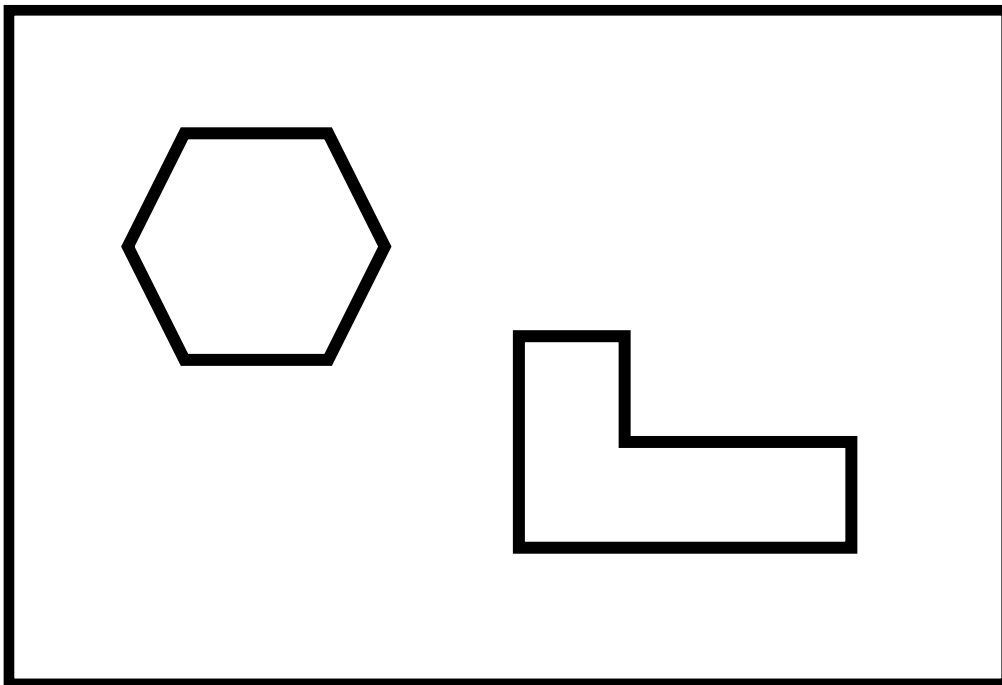


Shape Properties

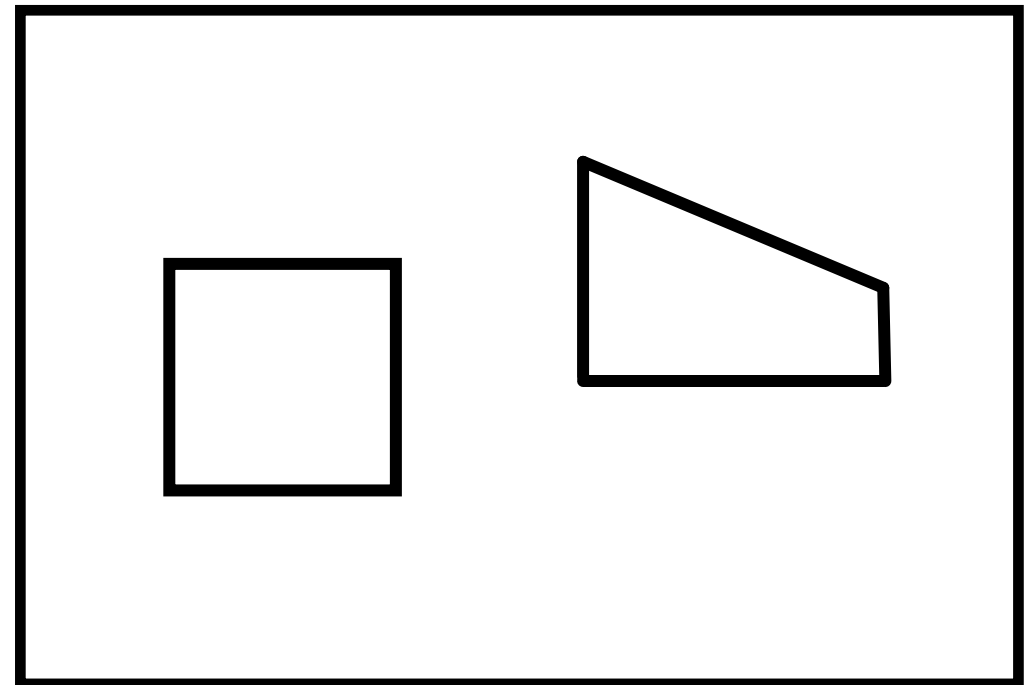
Part 2

Sort the shapes:

Hexagons



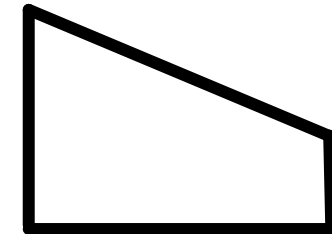
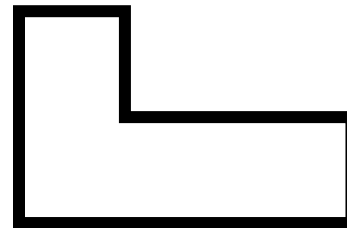
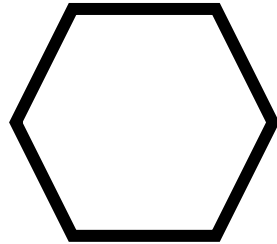
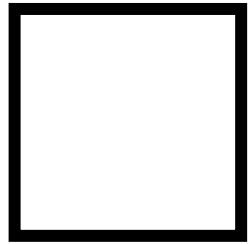
Not Hexagons



Shape Properties

Part 2

Sort the shapes:

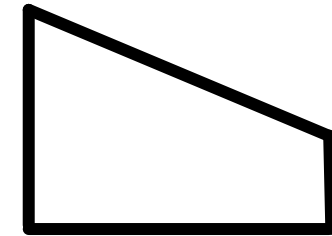
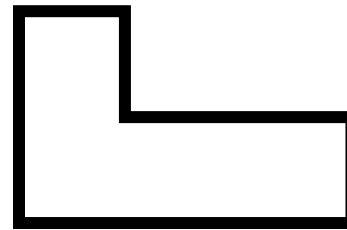
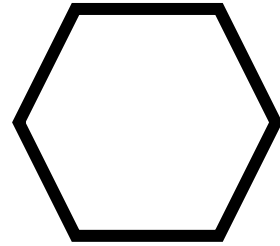


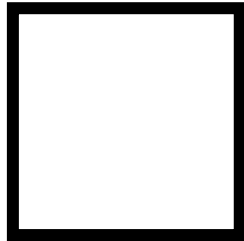
	All sides equal length	Not all sides equal length
Hexagon		
Not hexagon		

Shape Properties

Part 2

Sort the shapes:

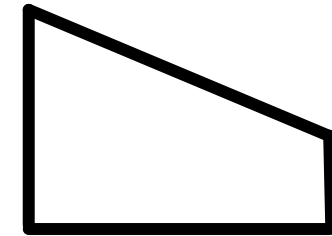
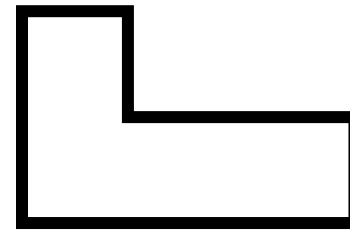


	All sides equal length	Not all sides equal length
Hexagon		
Not hexagon		

Shape Properties

Part 2

Sort the shapes:

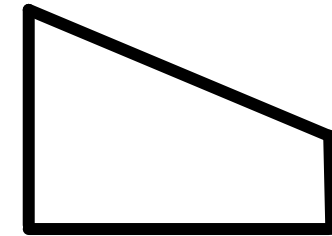


	All sides equal length	Not all sides equal length
Hexagon		
Not hexagon		

Shape Properties

Part 2

Sort the shapes:

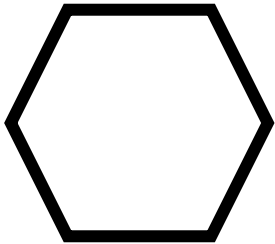
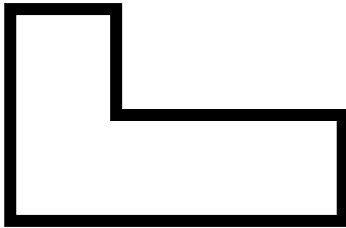
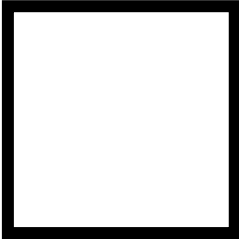
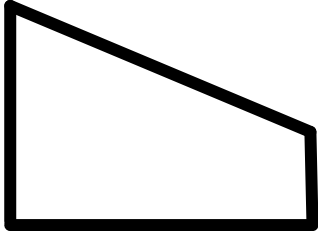


	All sides equal length	Not all sides equal length
Hexagon		
Not hexagon		

Shape Properties

Part 2

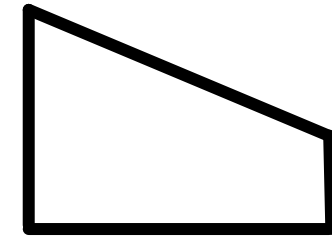
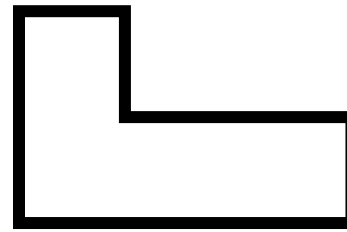
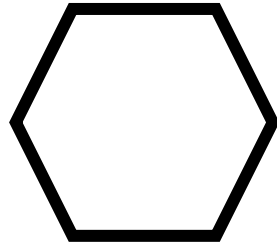
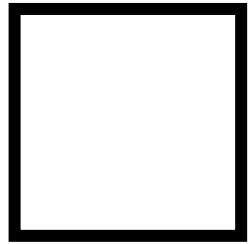
Sort the shapes:

	All sides equal length	Not all sides equal length
Hexagon		
Not hexagon		

Shape Properties

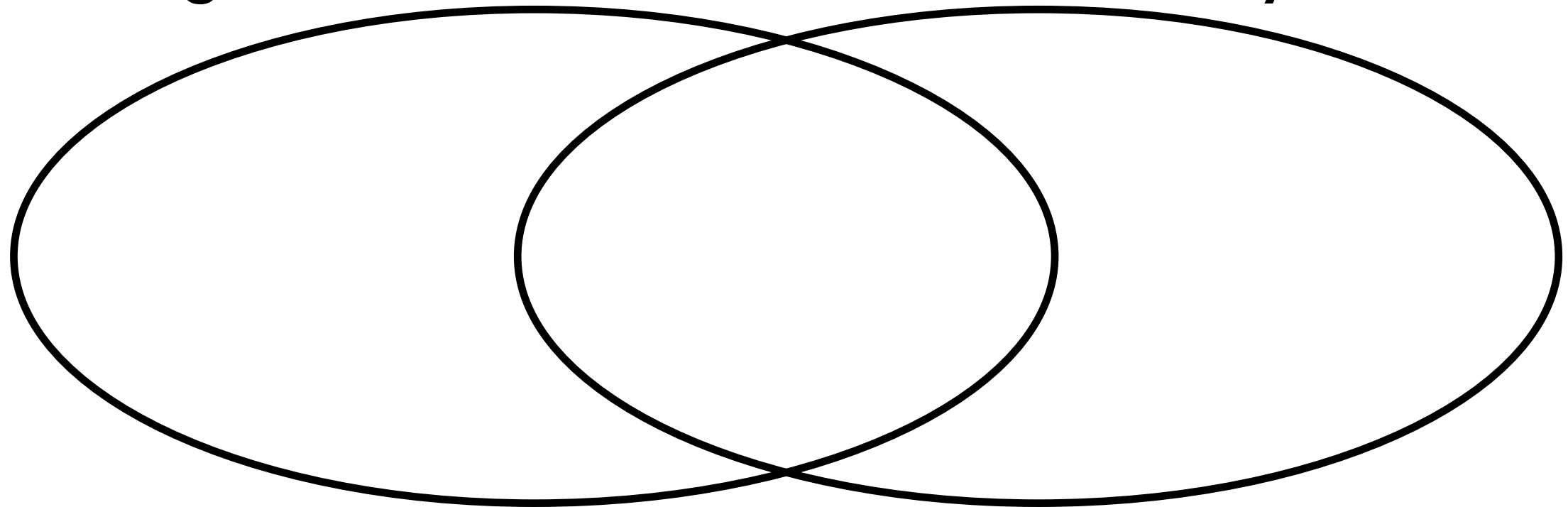
Part 2

Sort the shapes:



Hexagons

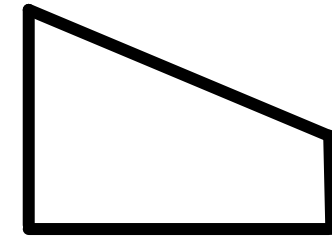
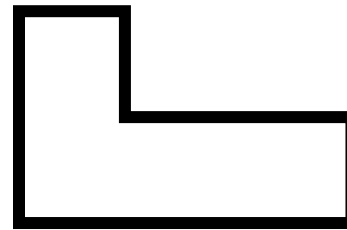
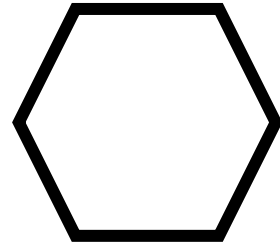
Symmetrical



Shape Properties

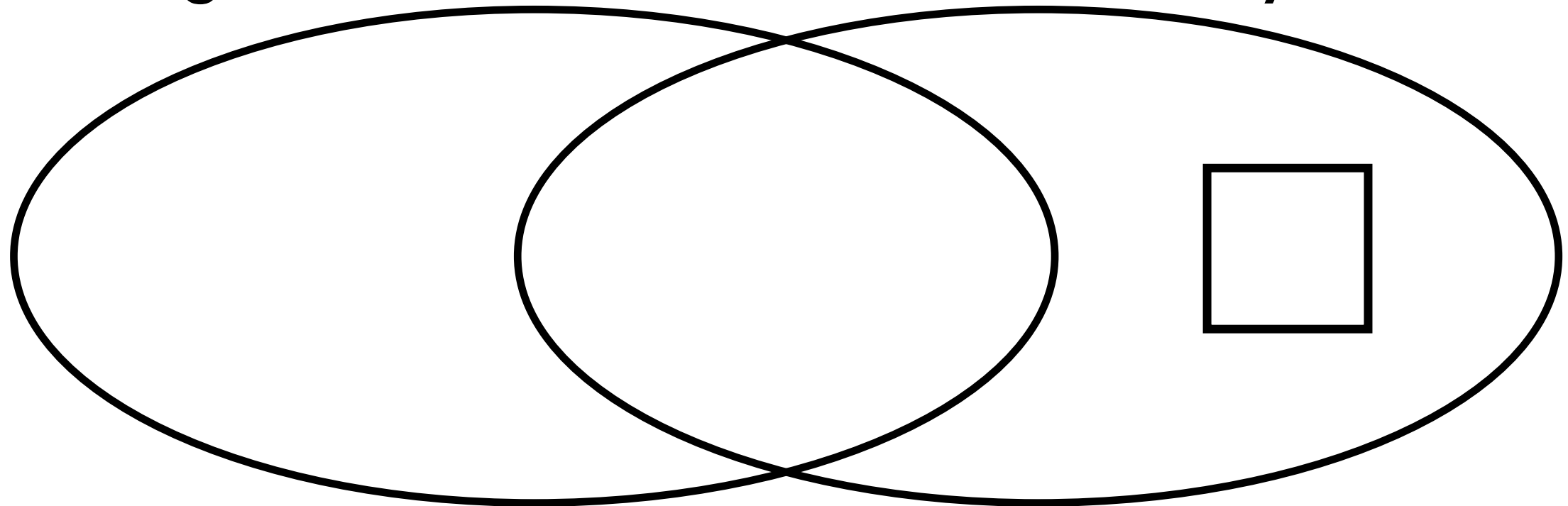
Part 2

Sort the shapes:



Hexagons

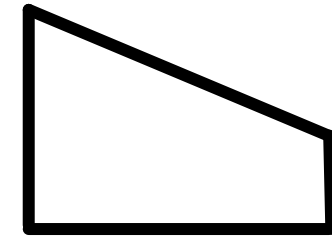
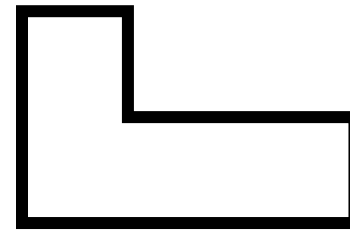
Symmetrical



Shape Properties

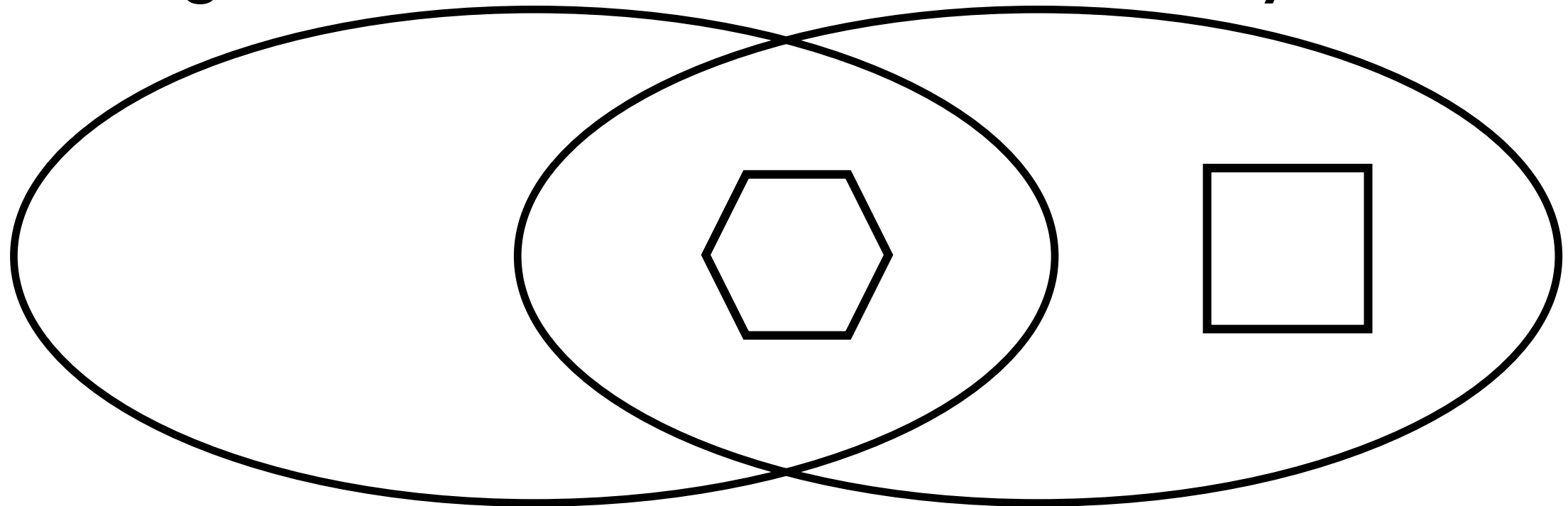
Part 2

Sort the shapes:



Hexagons

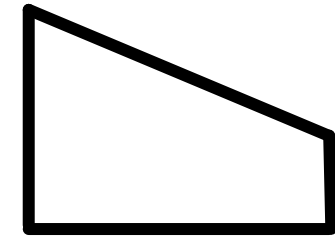
Symmetrical



Shape Properties

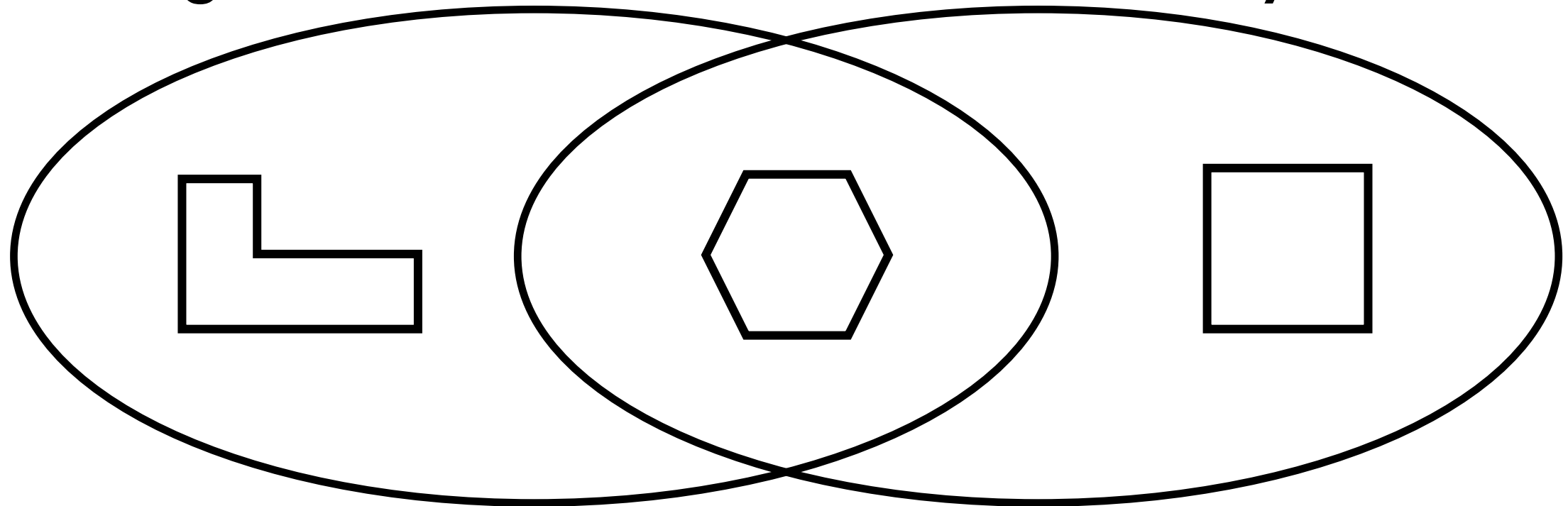
Part 2

Sort the shapes:



Hexagons

Symmetrical



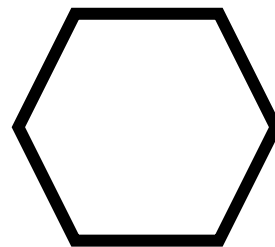
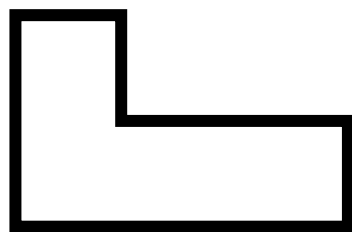
Shape Properties

Part 2

Sort the shapes:

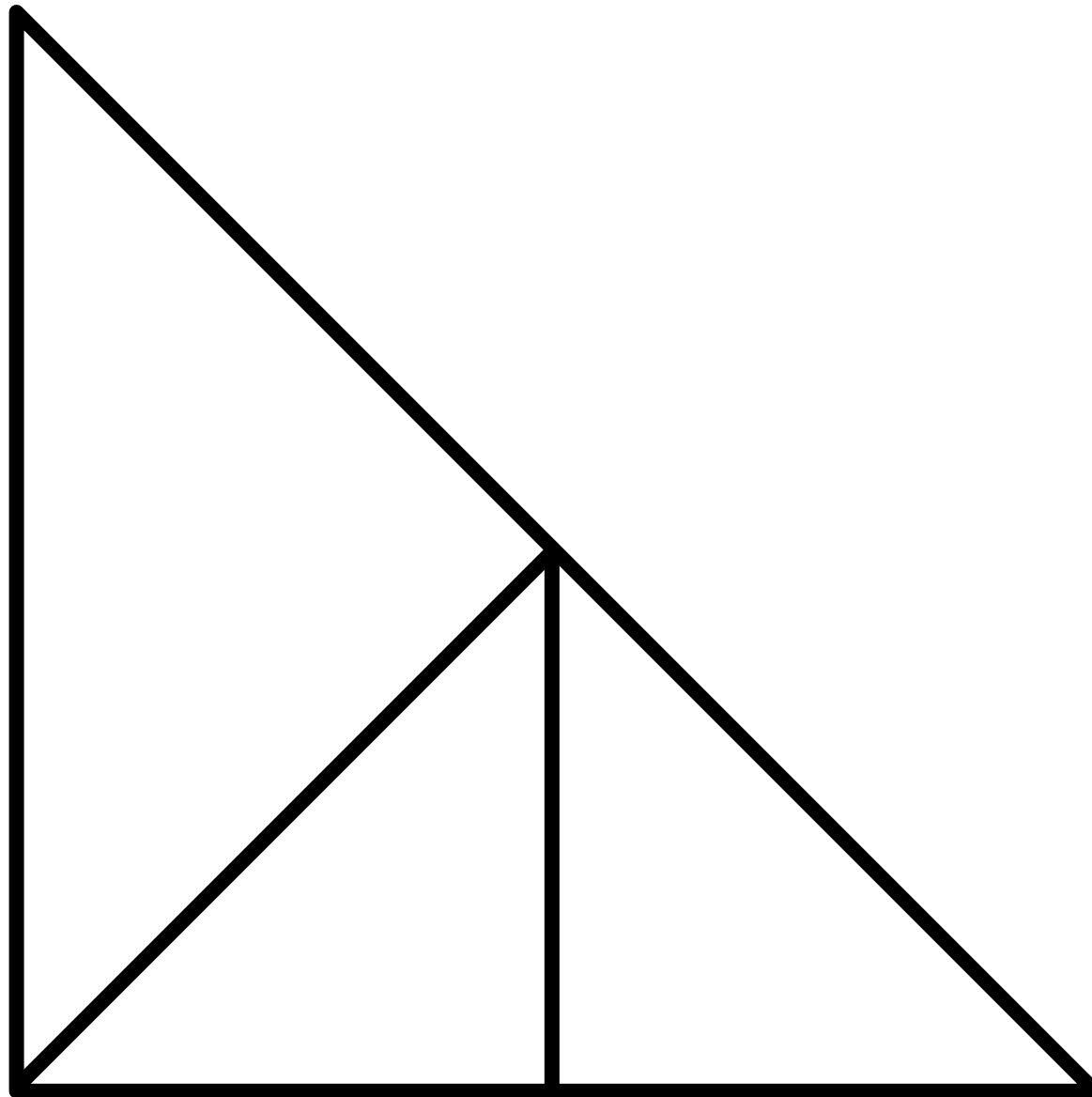
Hexagons

Symmetrical



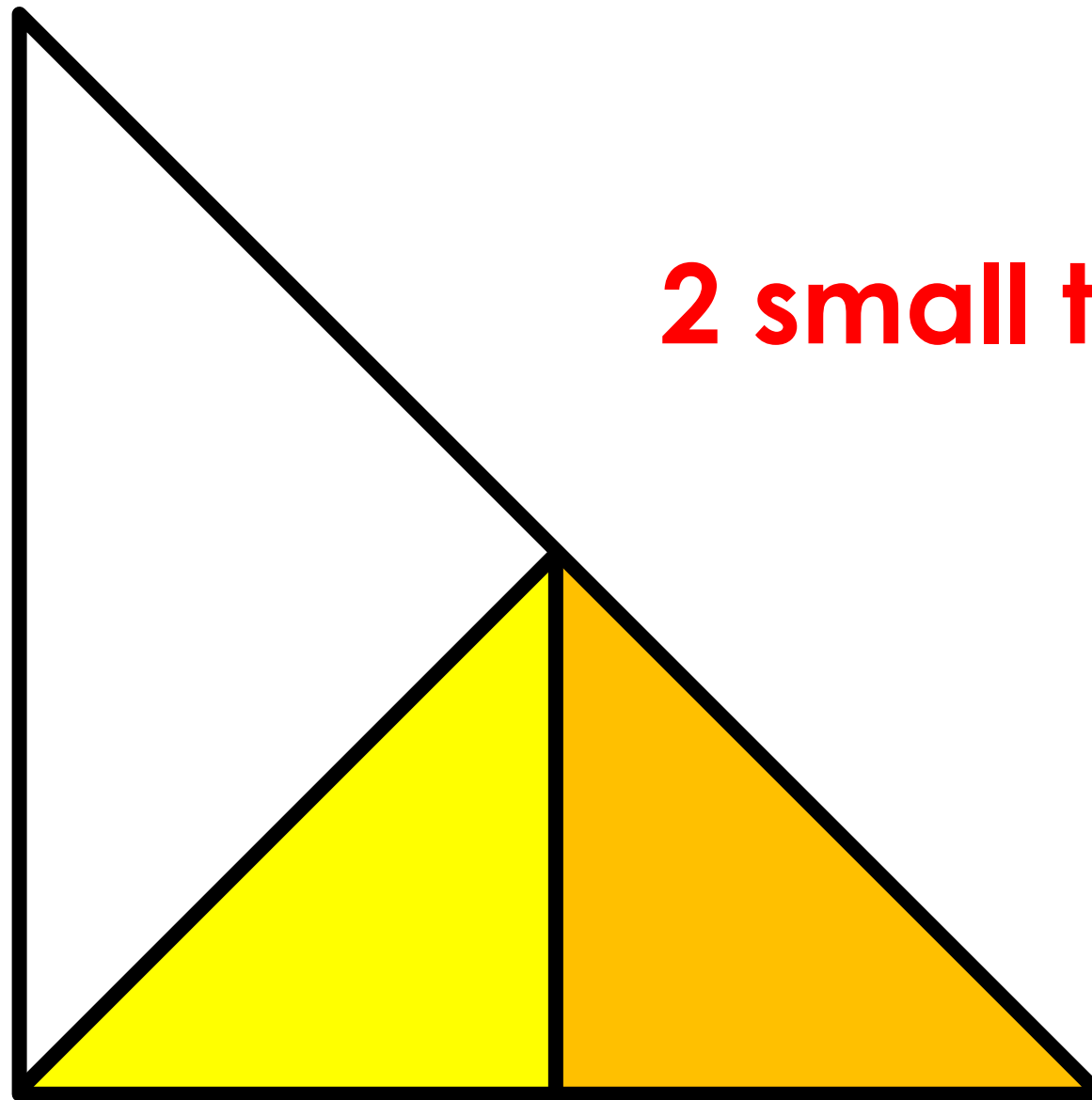
Combining Shapes

Task A Answers

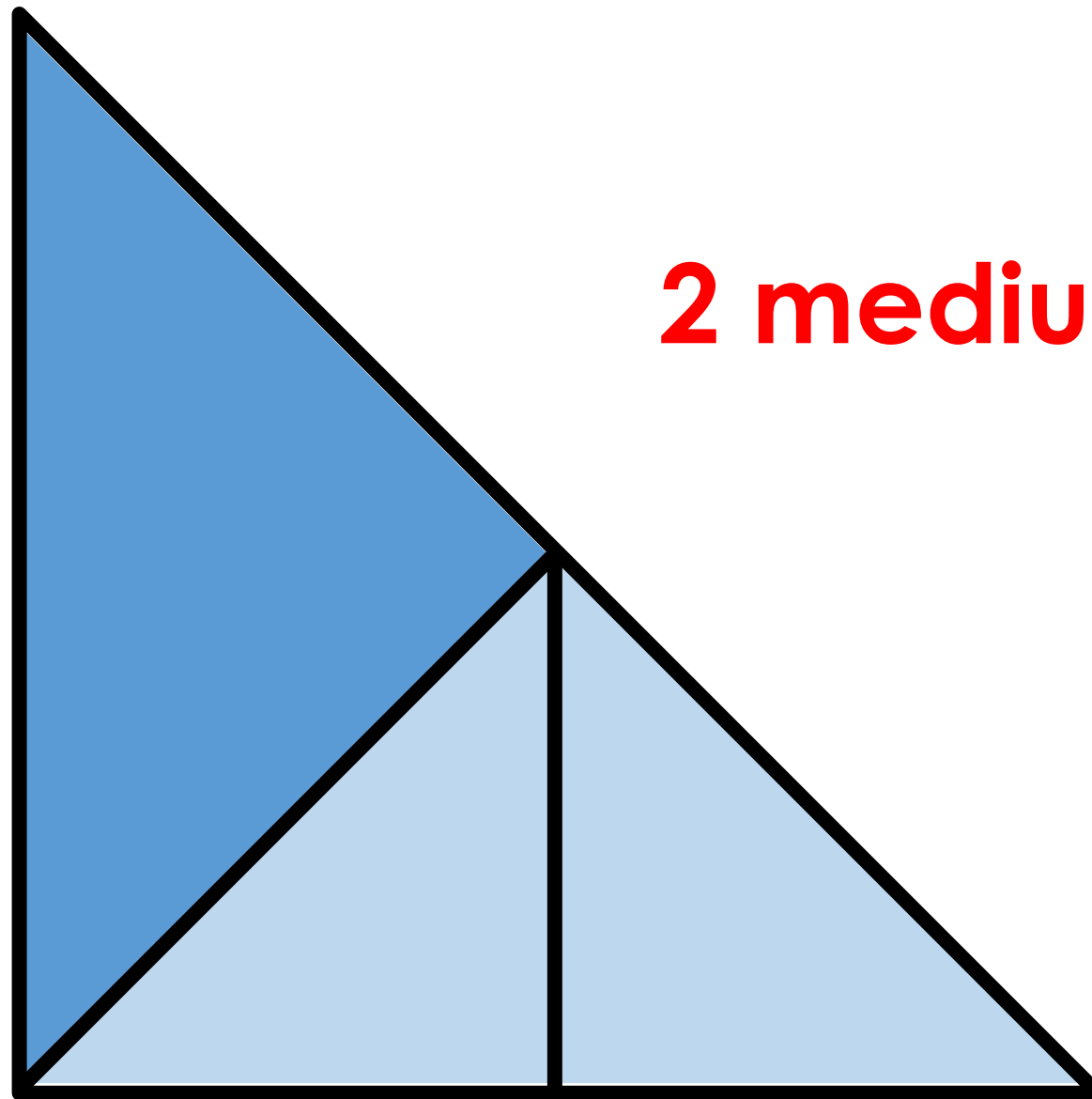


Combining Shapes

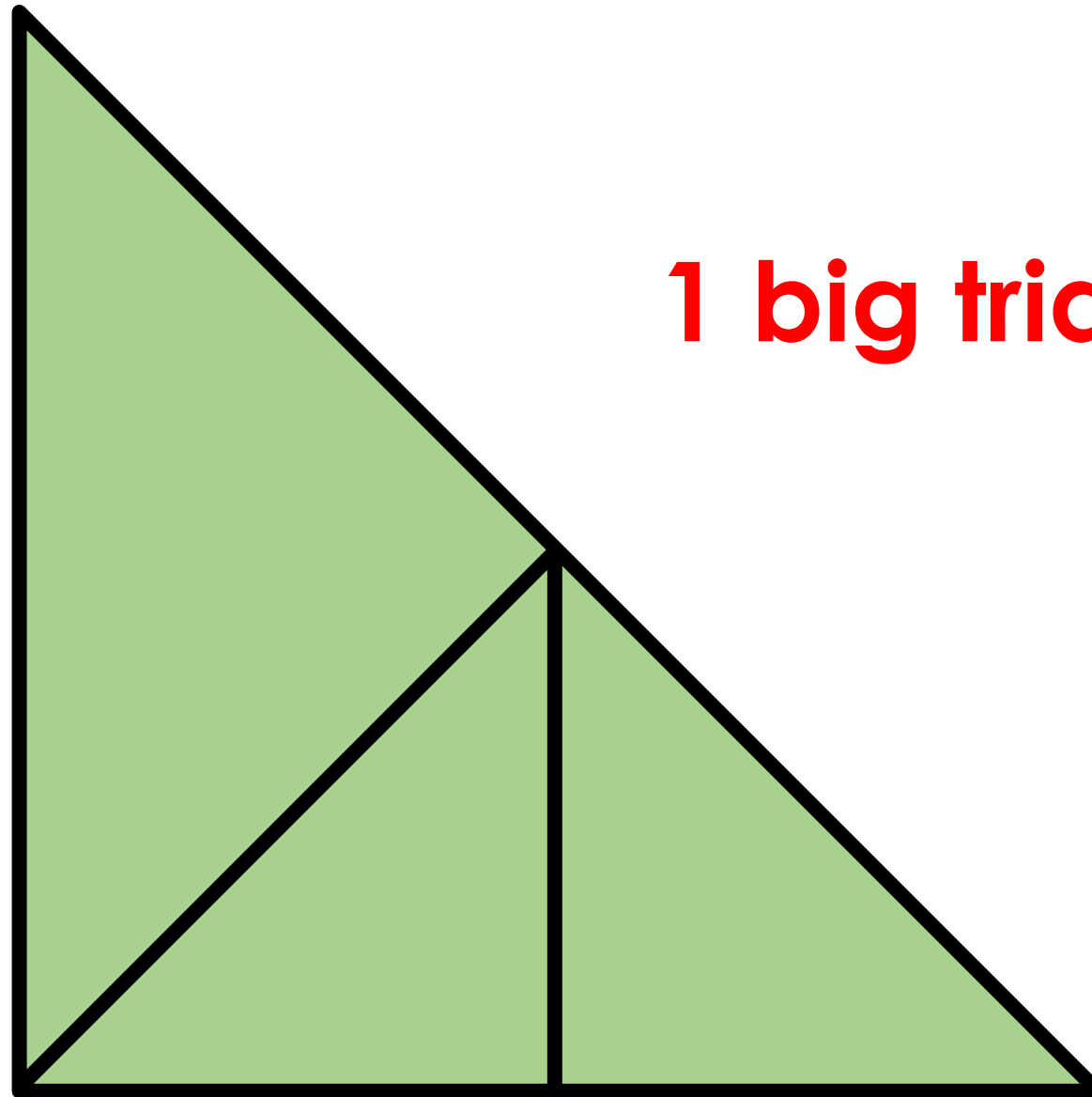
Task A Answers



2 small triangles



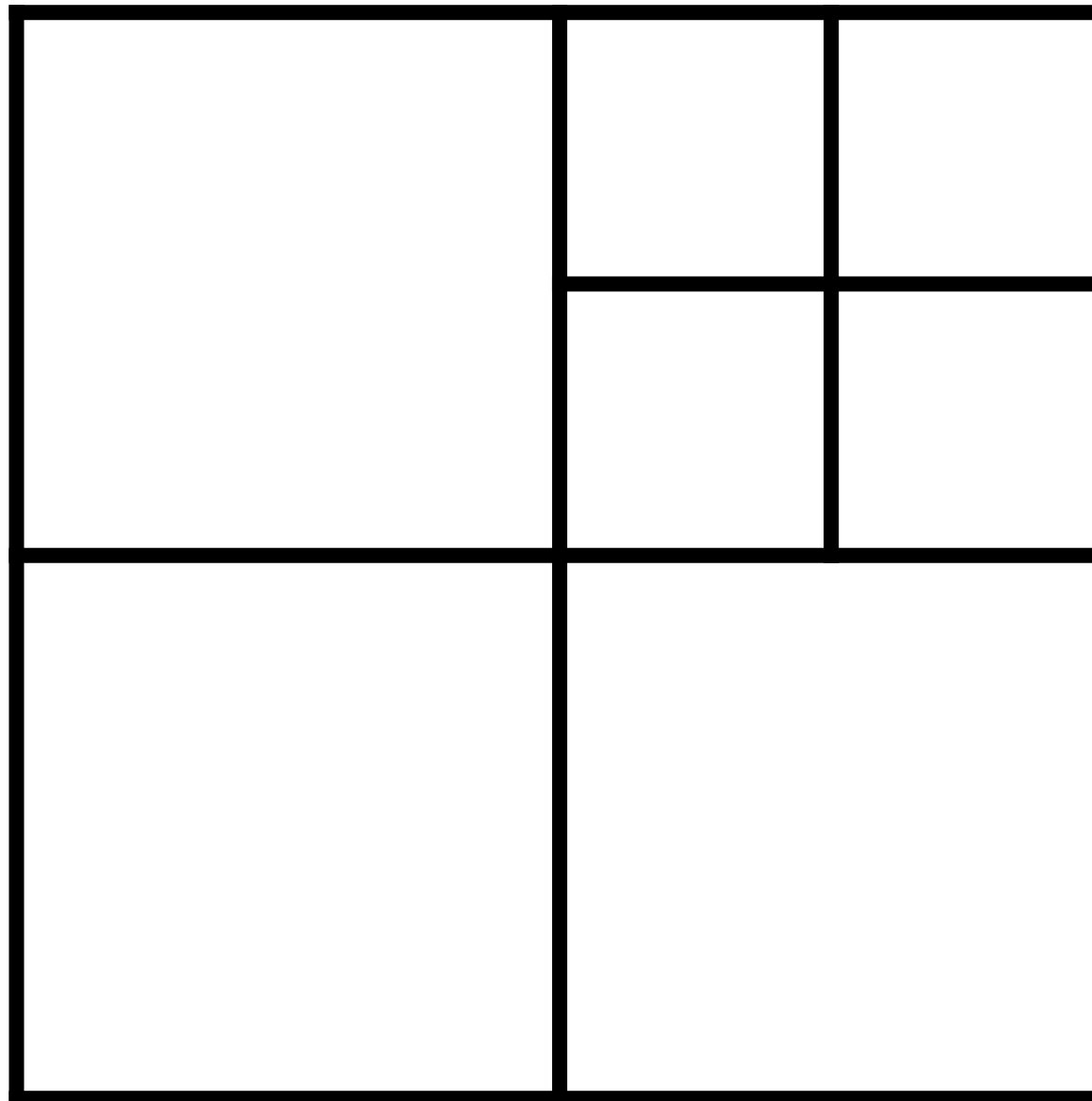
2 medium triangles



1 big triangle

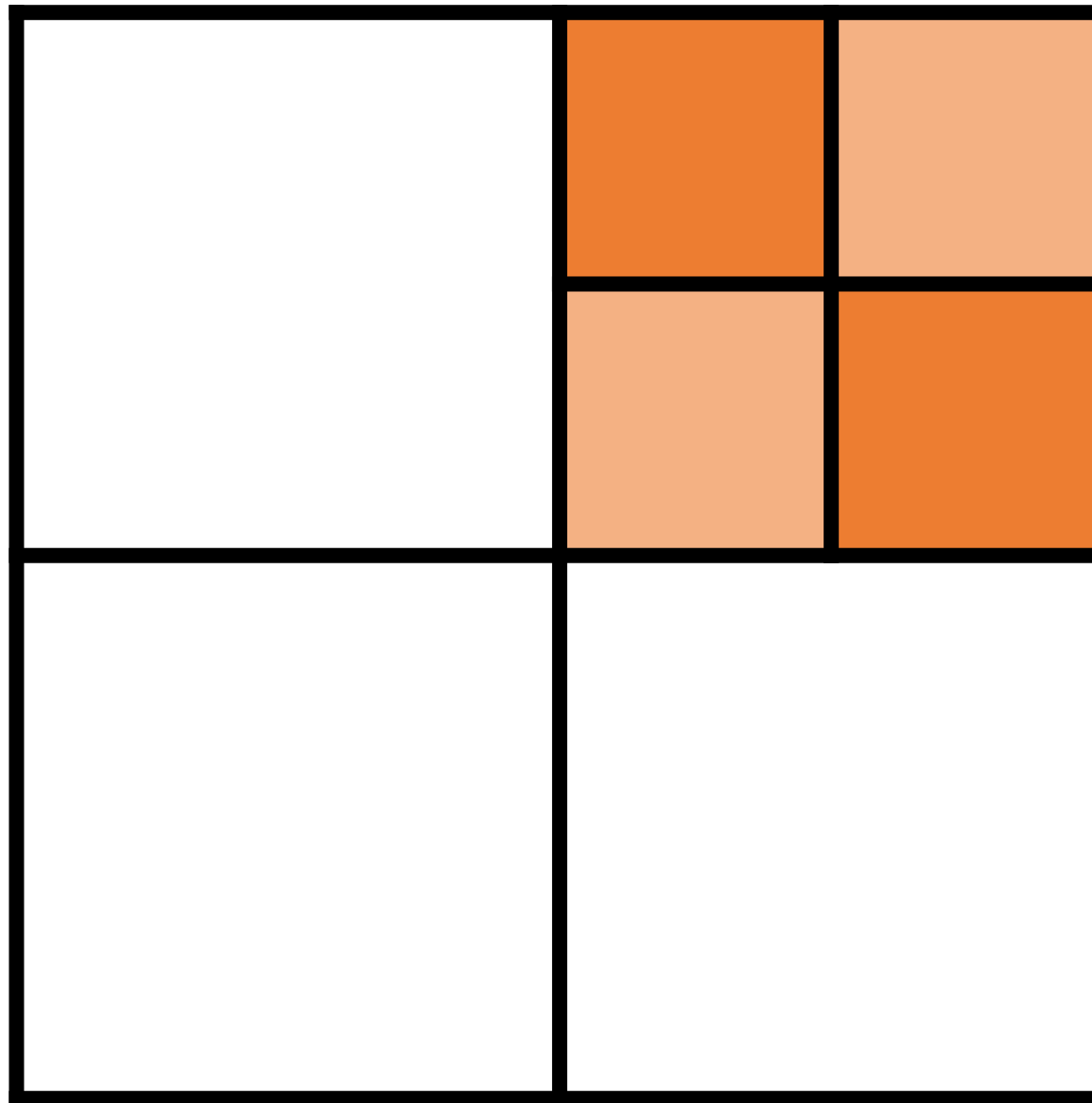
Combining Shapes

Task A Answers



Combining Shapes

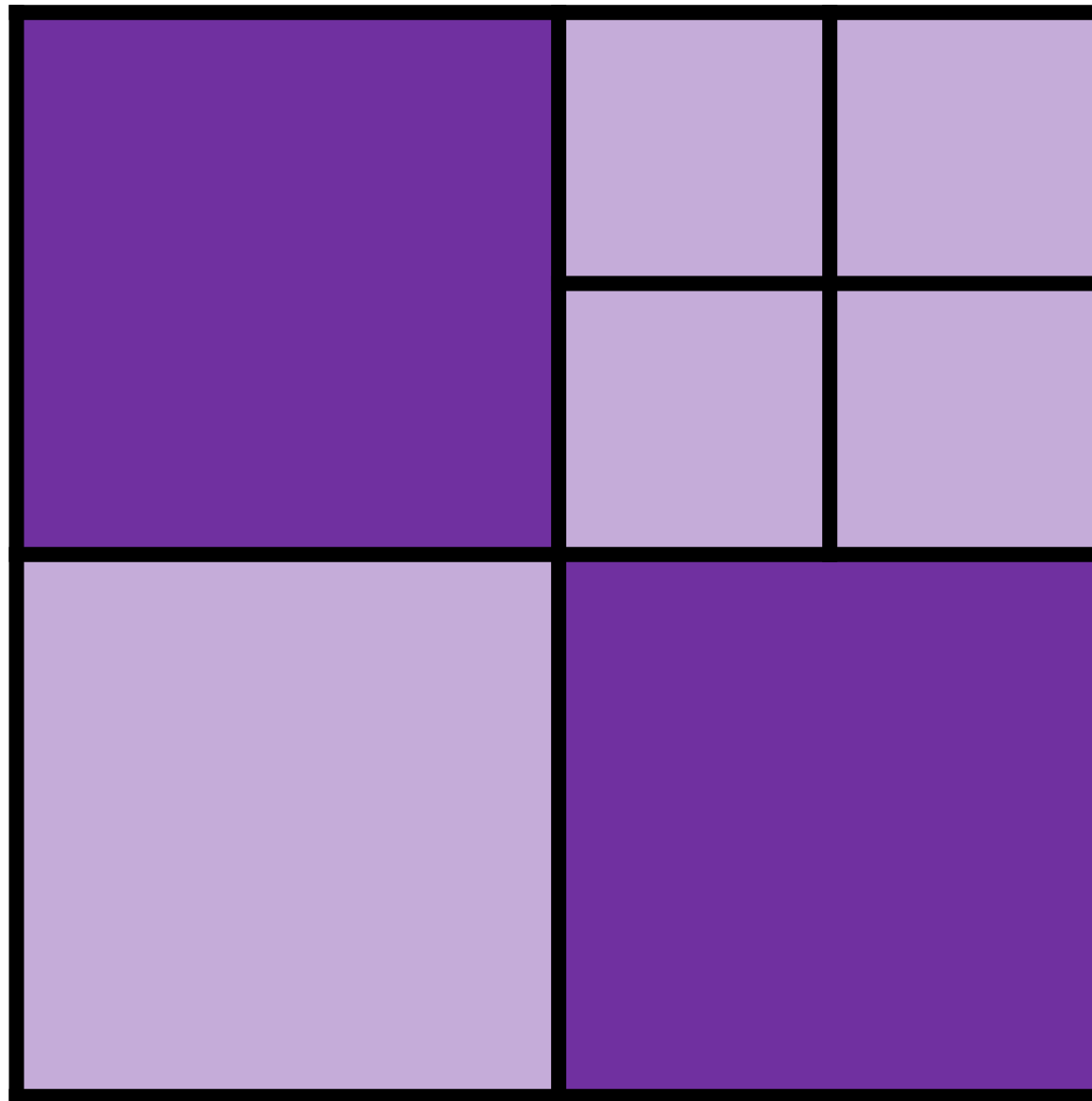
Task A Answers



4 small squares

Combining Shapes

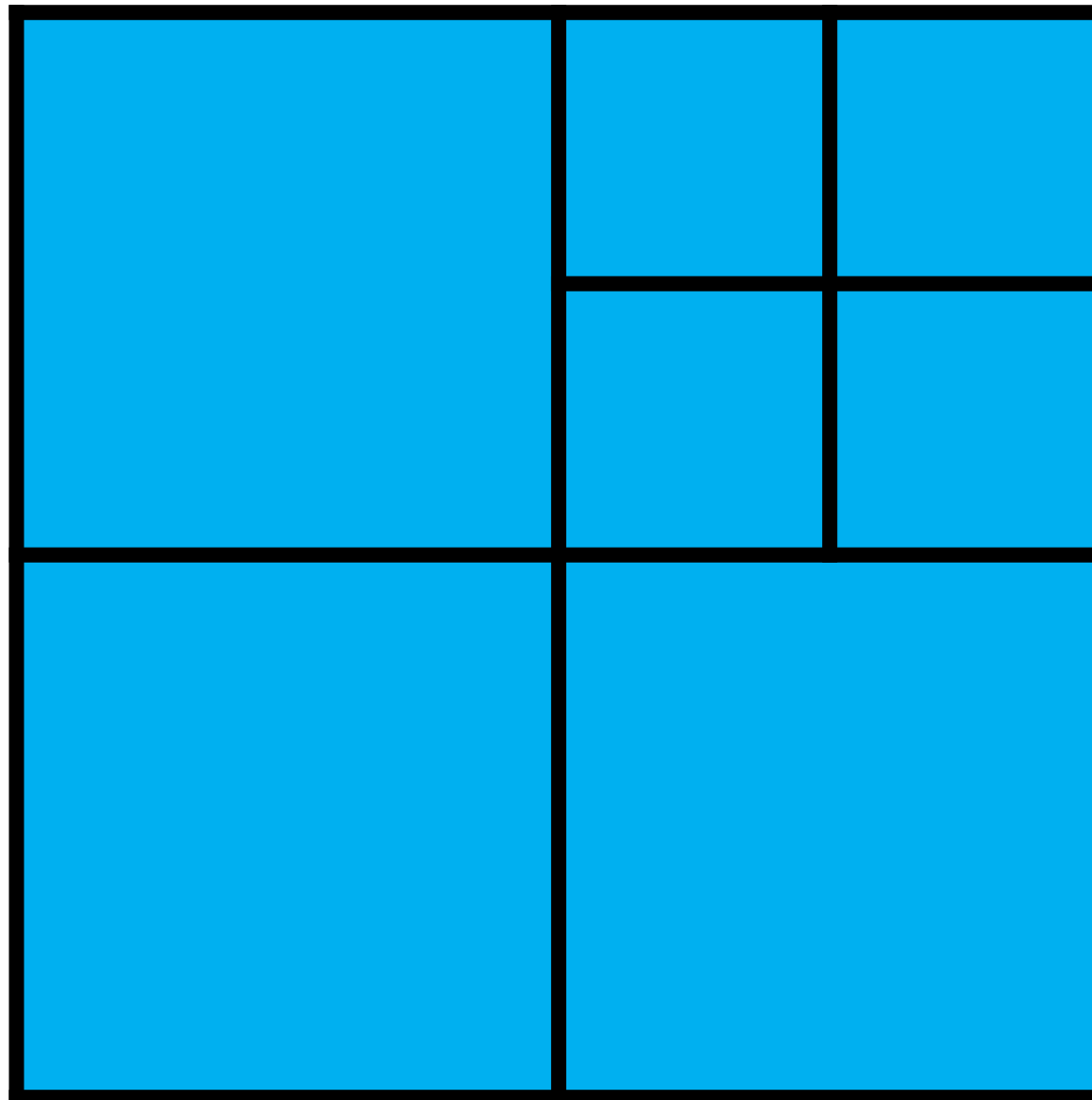
Task A Answers



4 medium squares

Combining Shapes

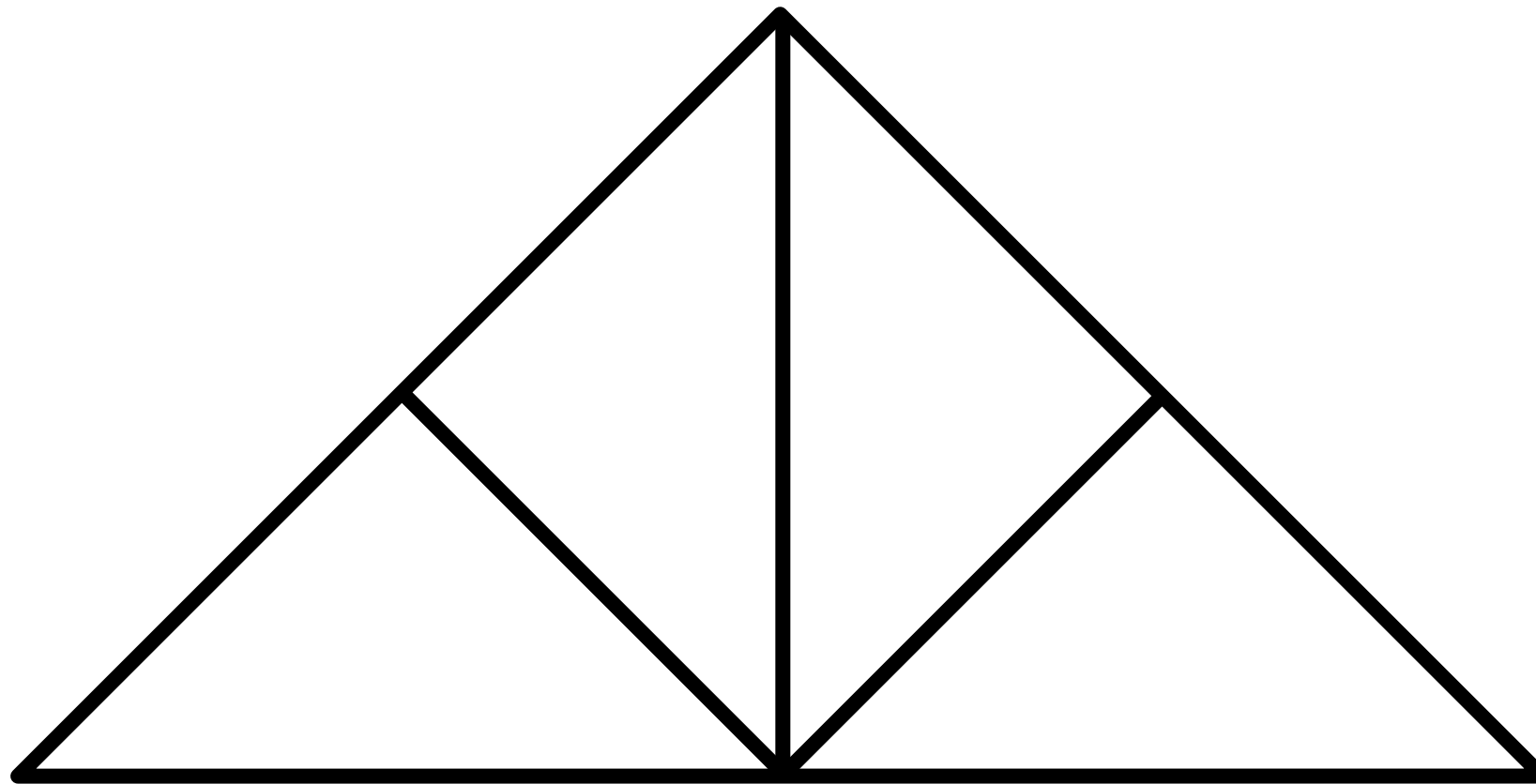
Task A Answers



1 large square

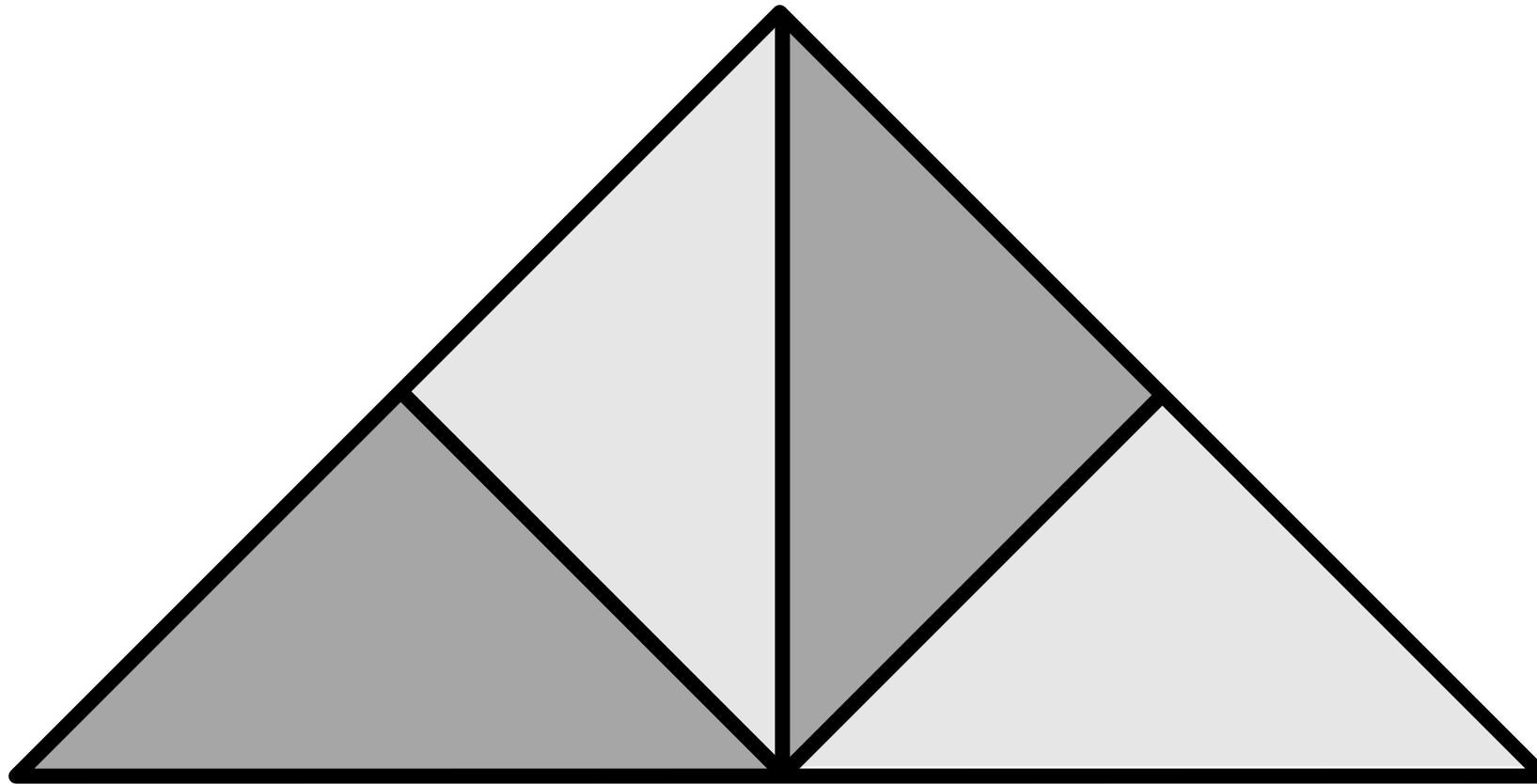
Combining Shapes

Task B Answers



Combining Shapes

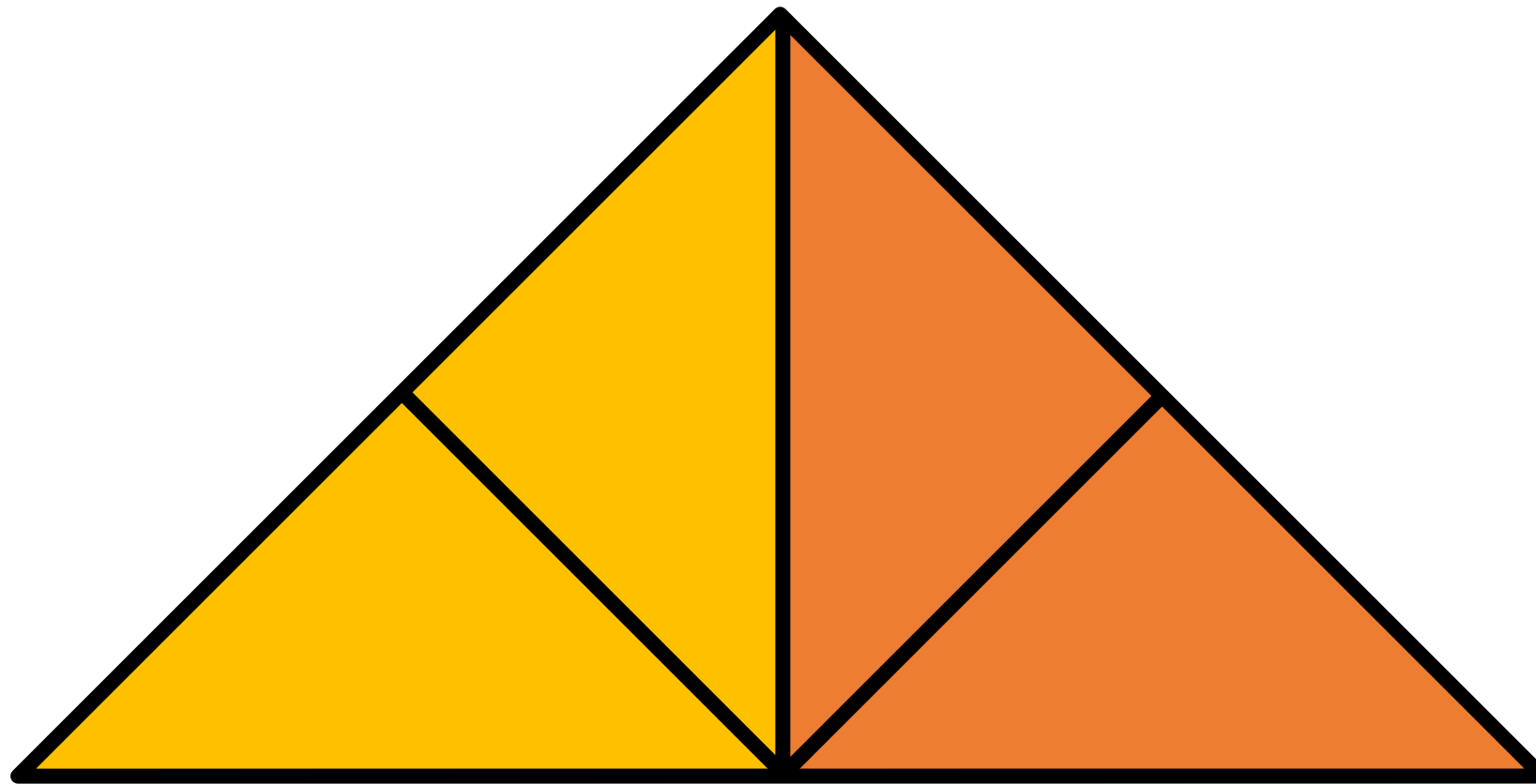
Task B Answers



4 small triangles

Total:

4



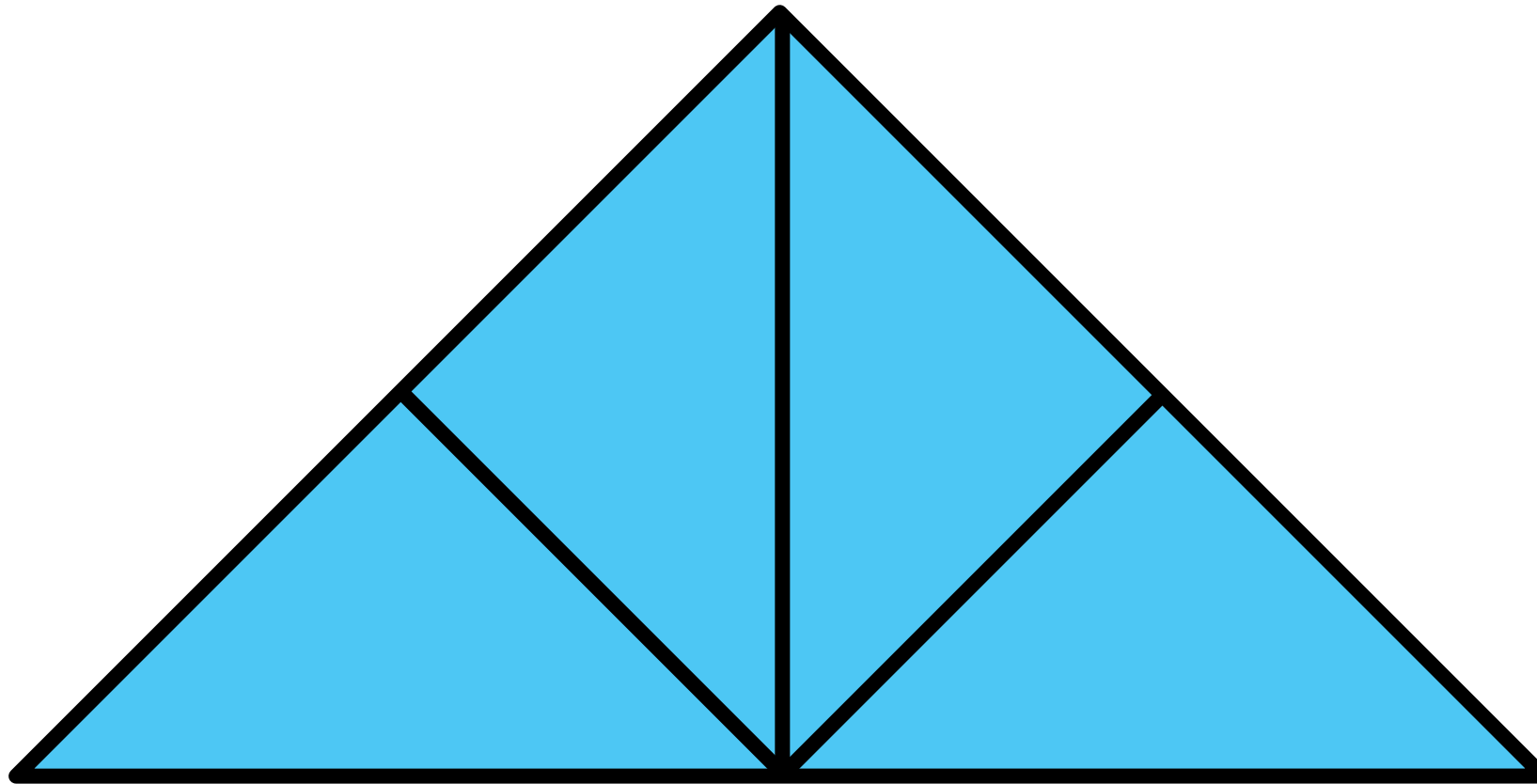
2 medium triangles

Total:

$$4 + 2$$

Combining Shapes

Task B Answers



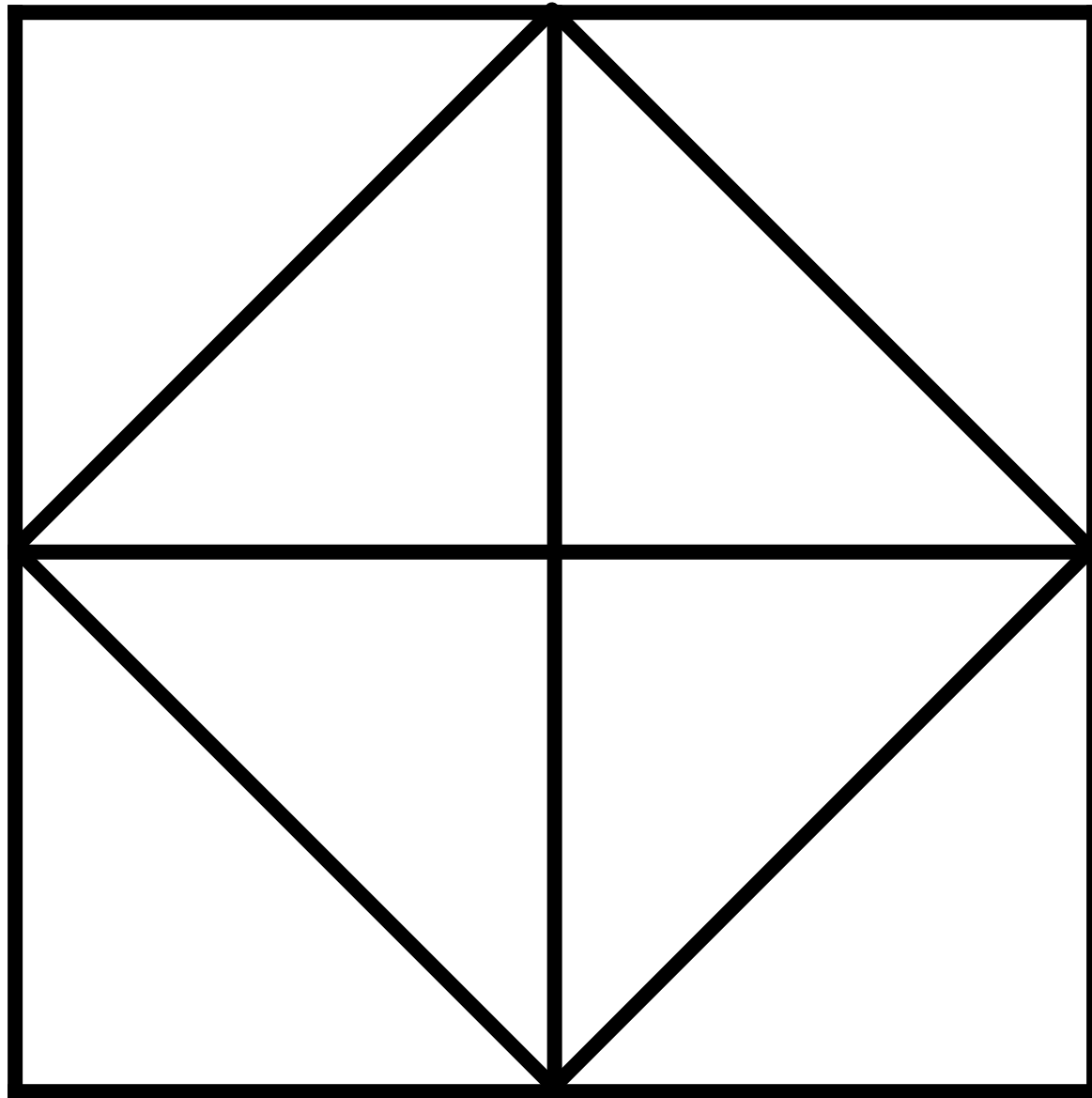
1 big triangle

Total:

$$4 + 2 + 1 = 7$$

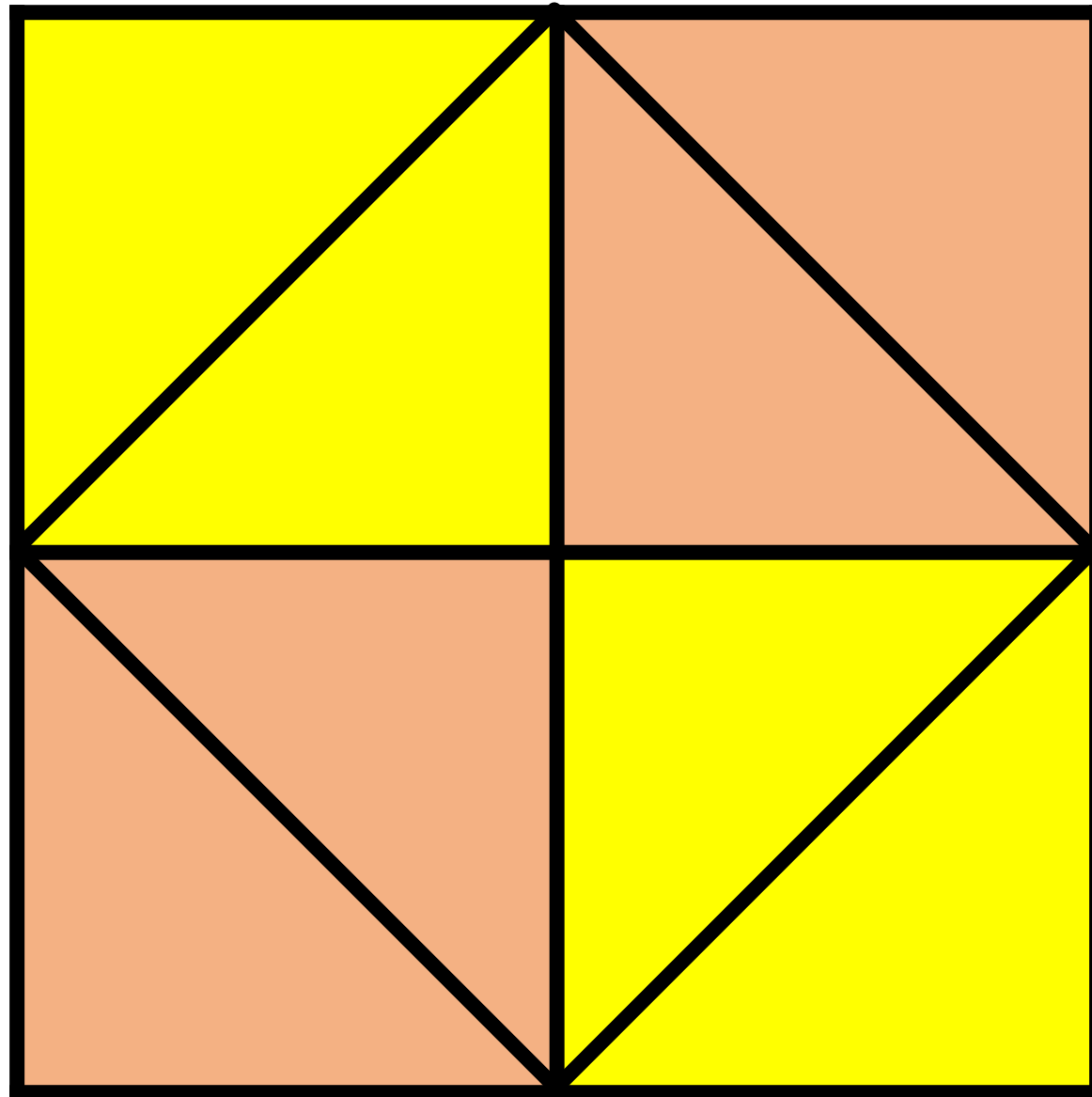
Combining Shapes

Task B Answers



Combining Shapes

Task B Answers



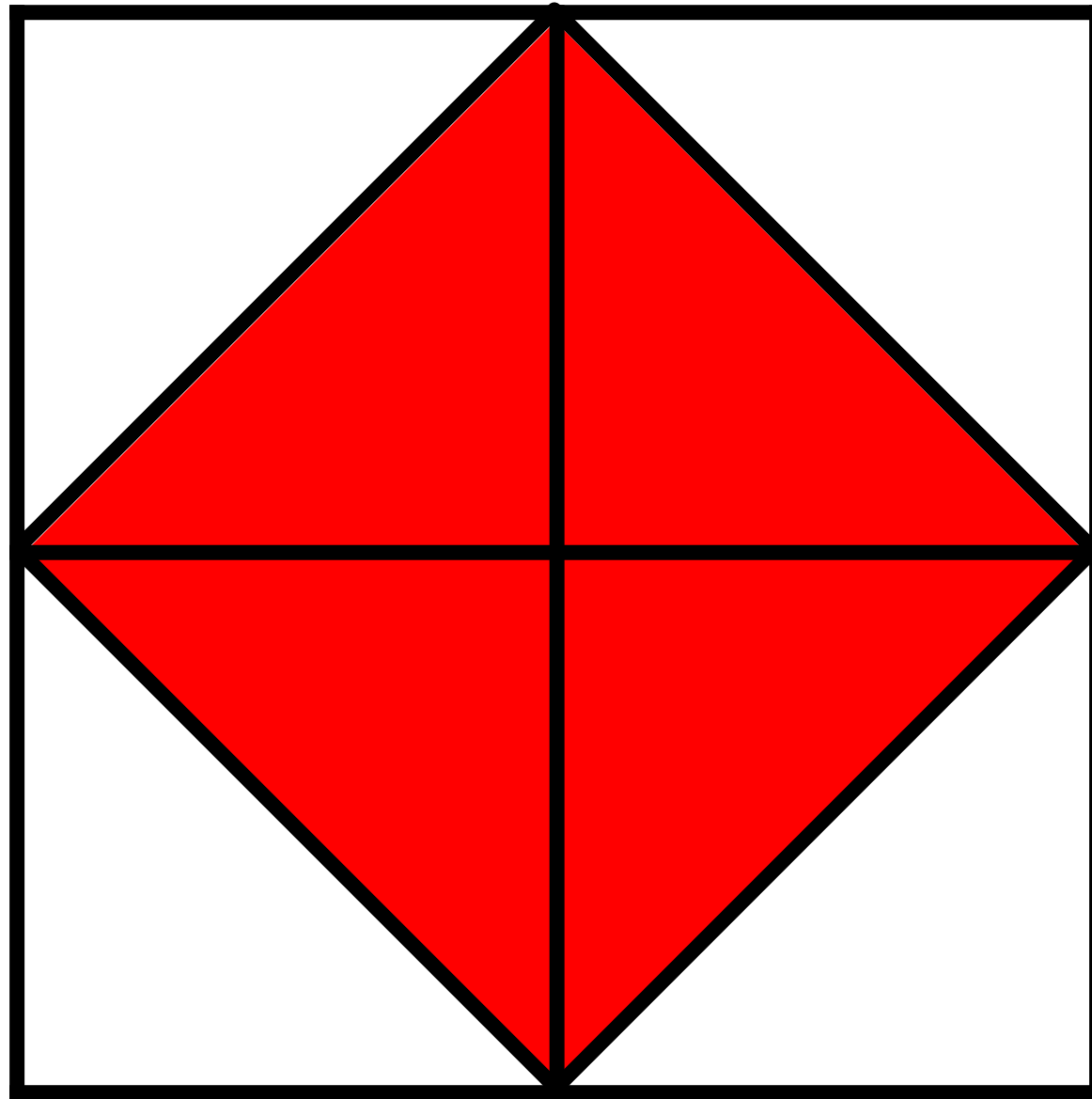
Total:

4

4 small squares

Combining Shapes

Task B Answers



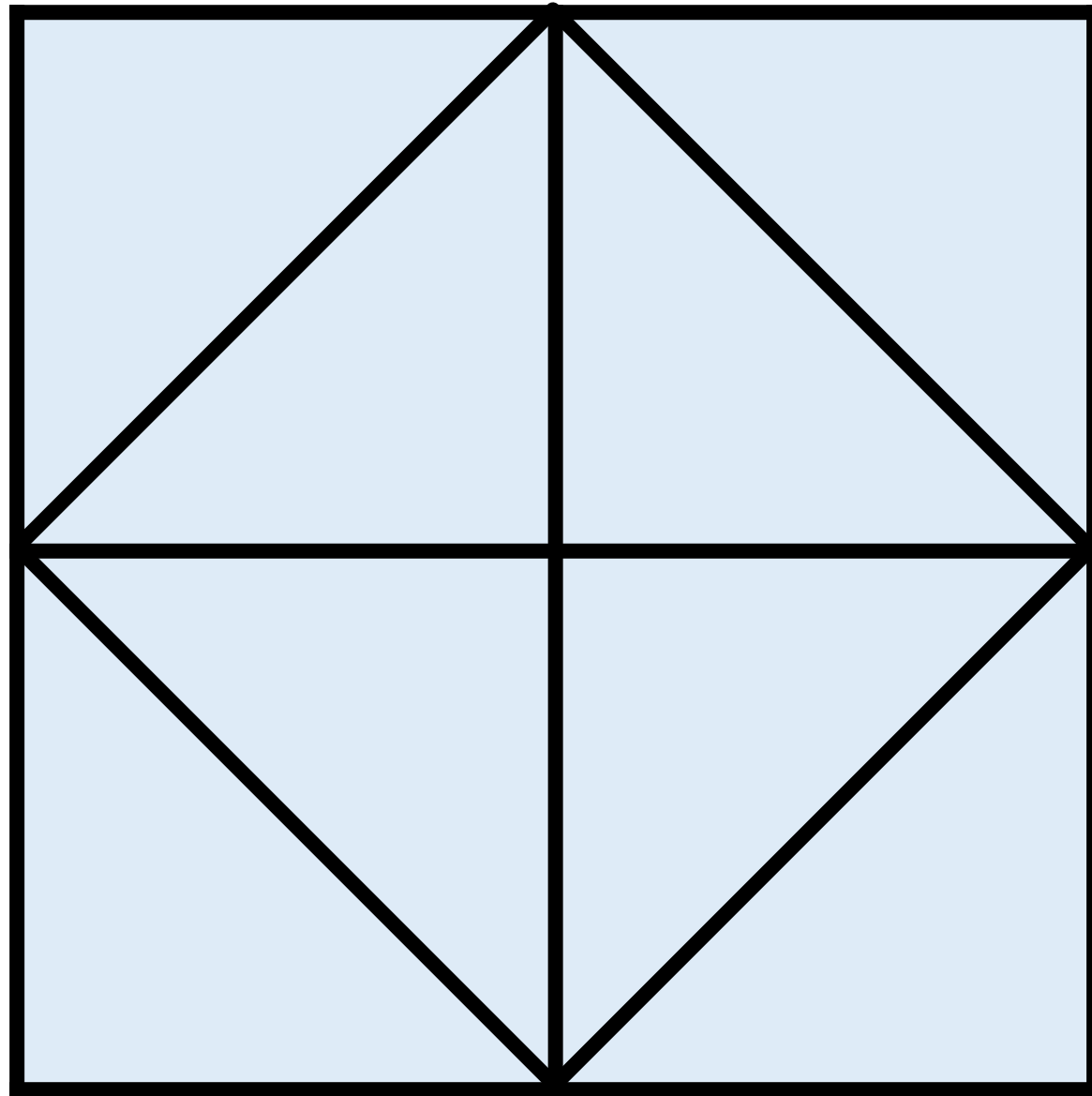
Total:

$$4 + 1$$

1 medium square

Combining Shapes

Task B Answers



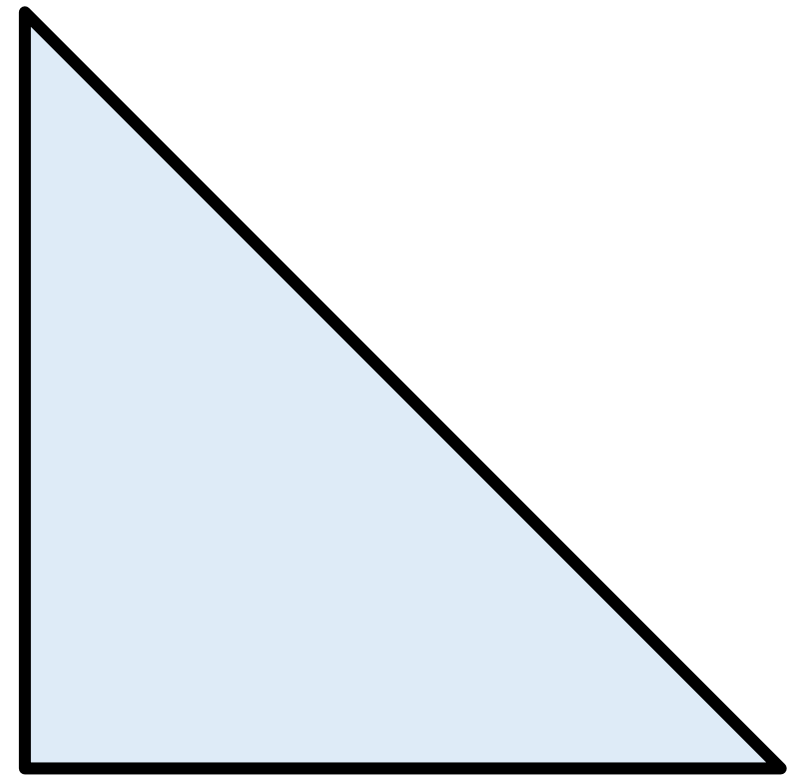
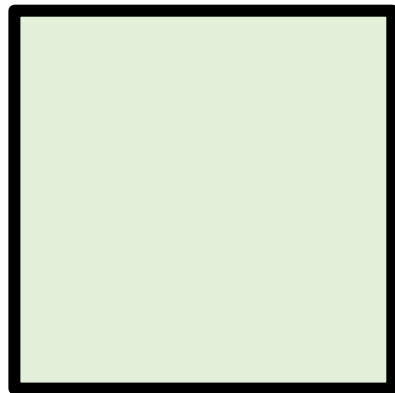
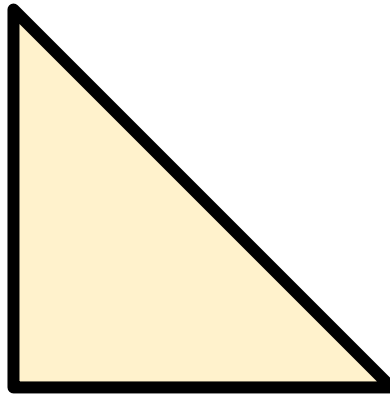
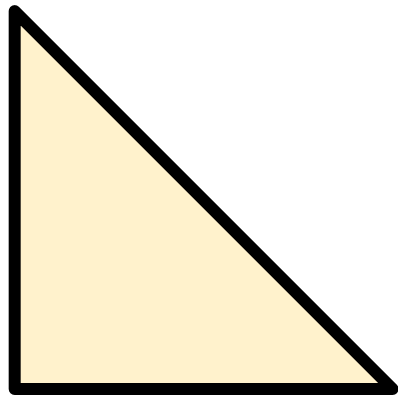
Total:

$$4 + 1 + 1 = 6$$

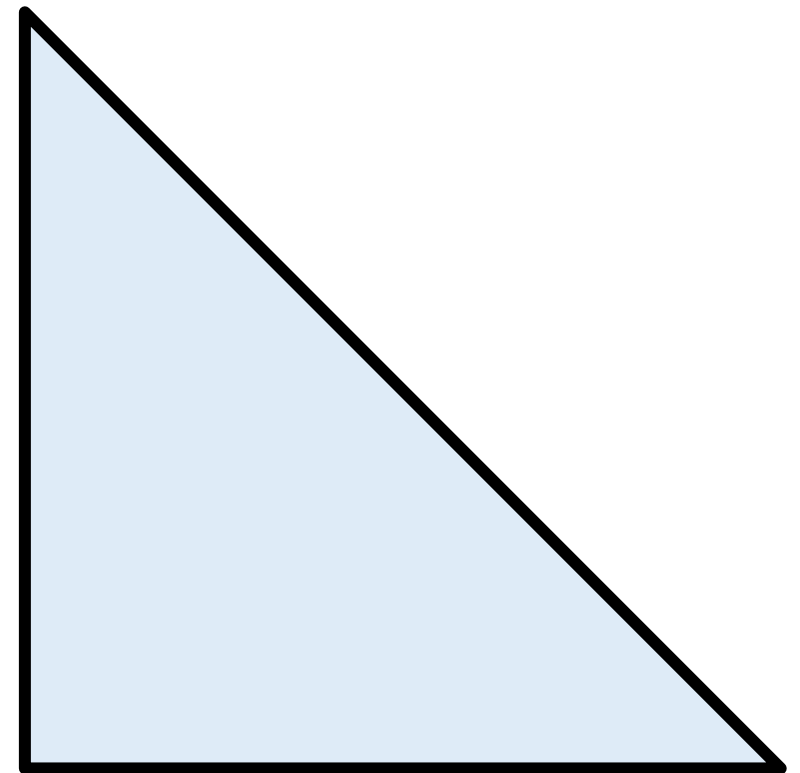
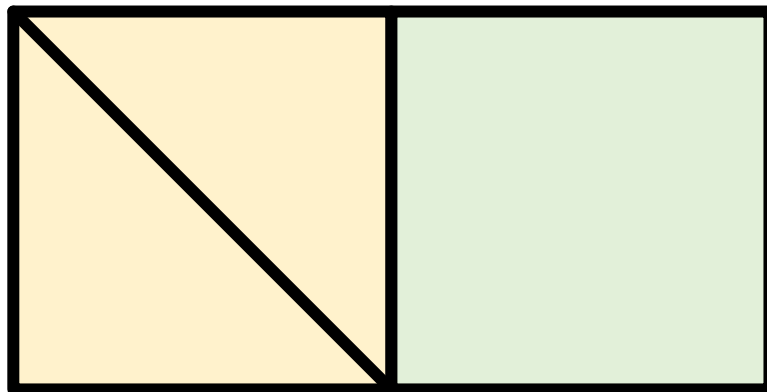
1 large square

Combining Shapes

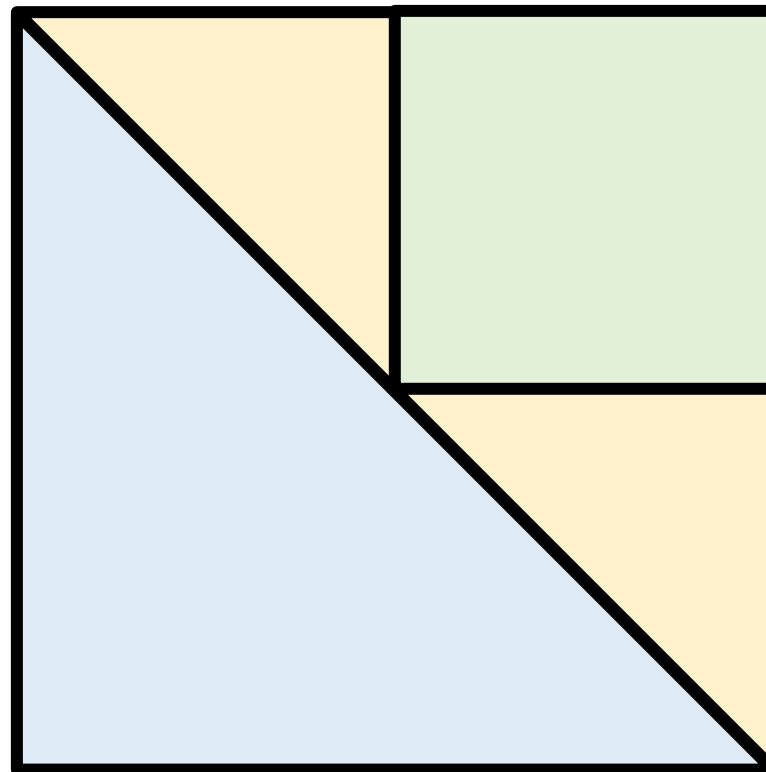
Task C Answers



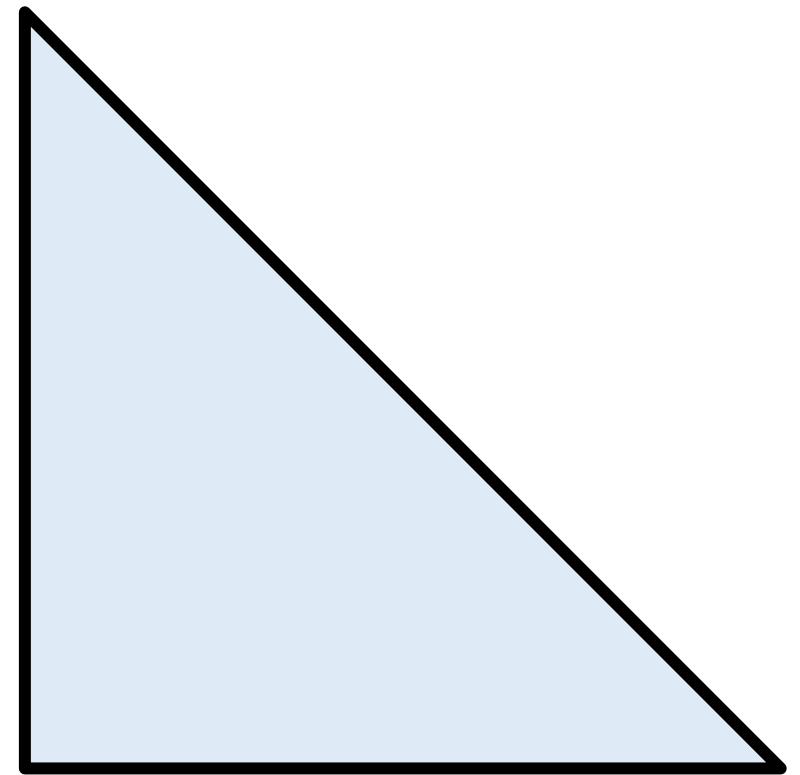
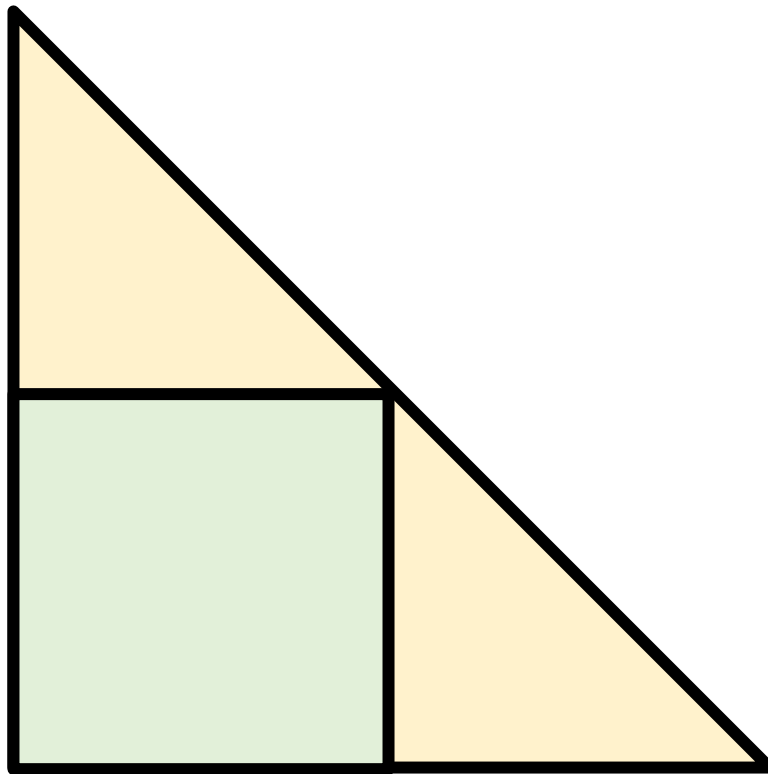
Task 1: 3 shapes to make a rectangle



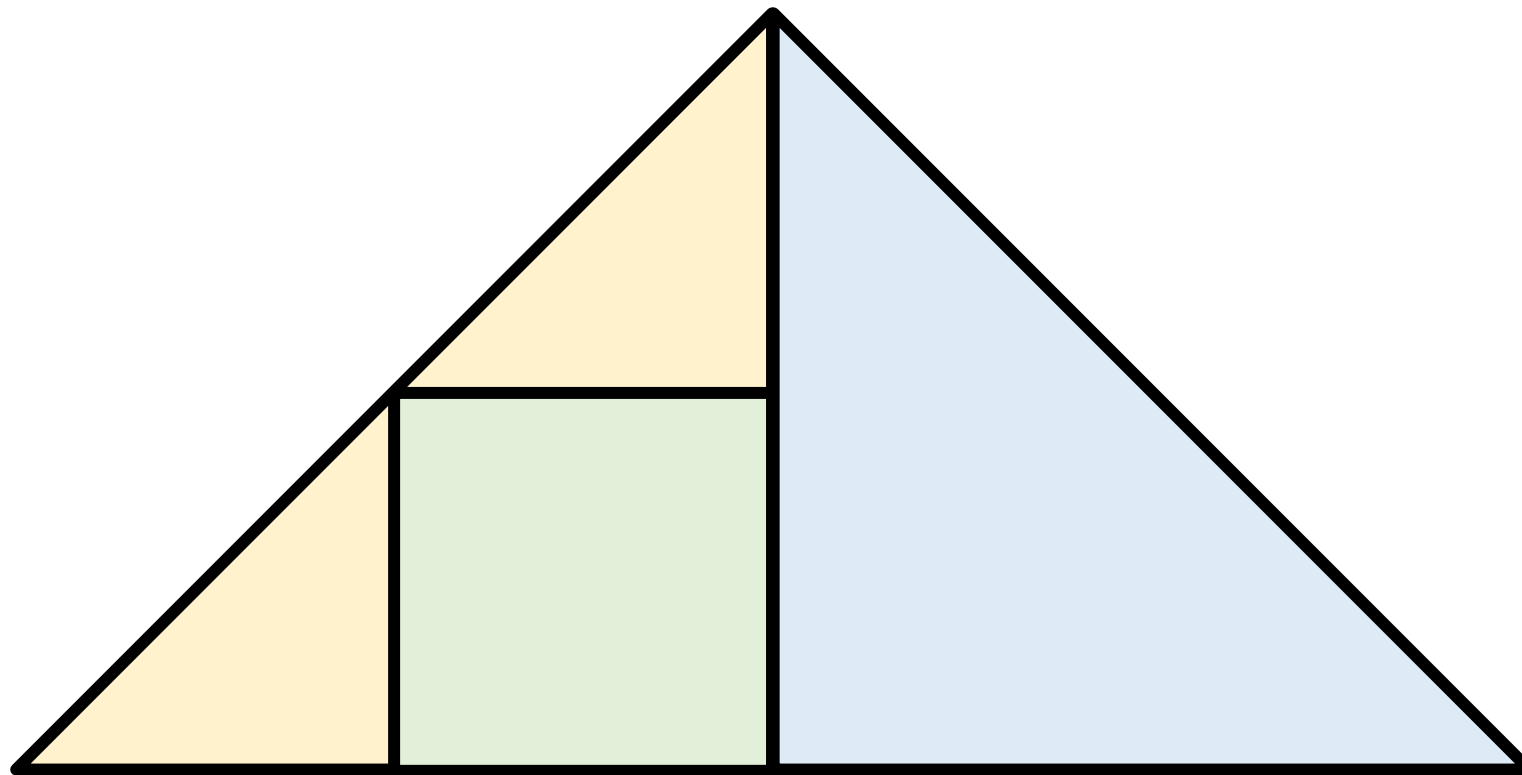
Task 2: 4 shapes to make a square



Task 3: 3 shapes to make a triangle

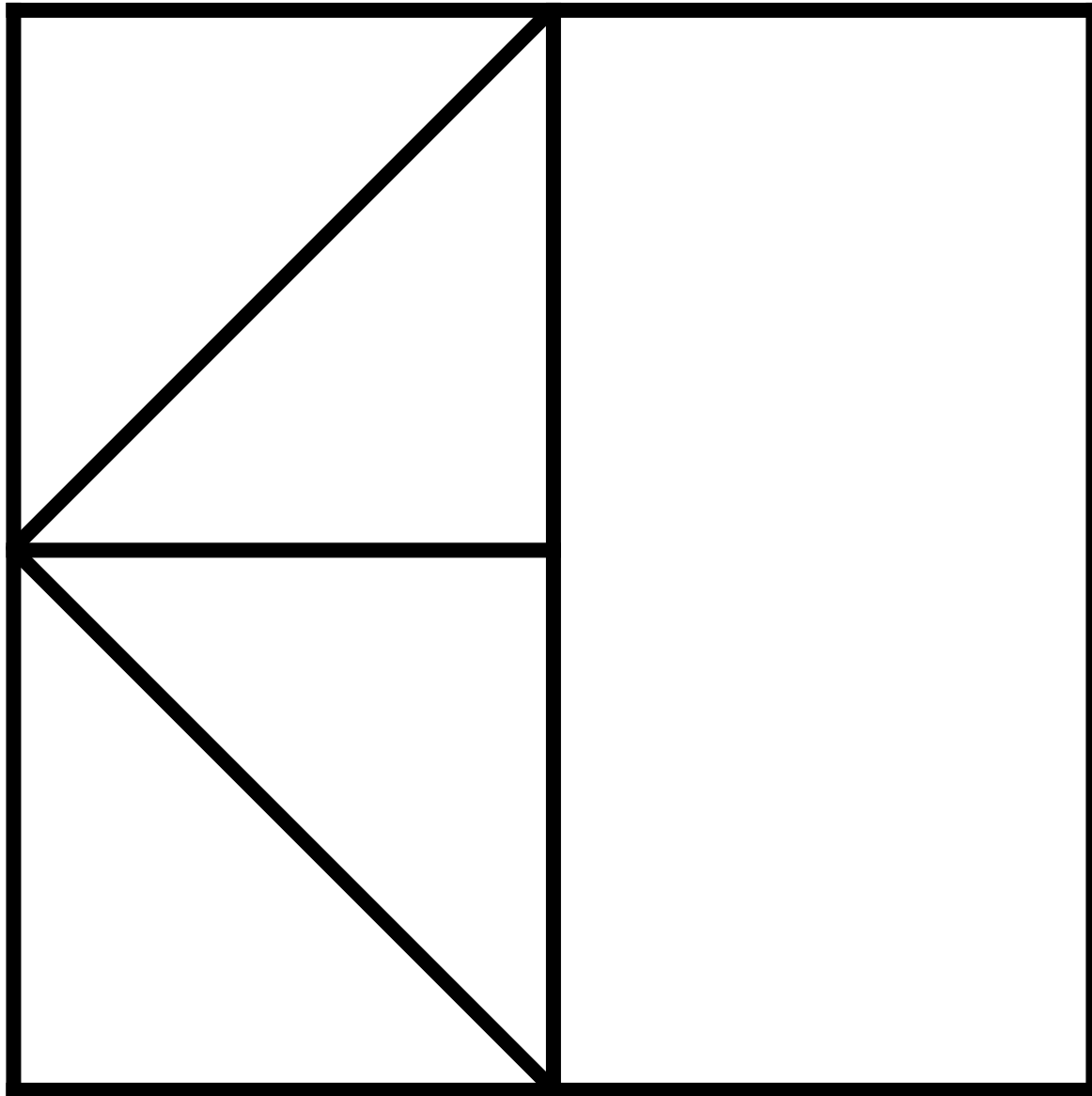


Task 4: 4 shapes to make a triangle



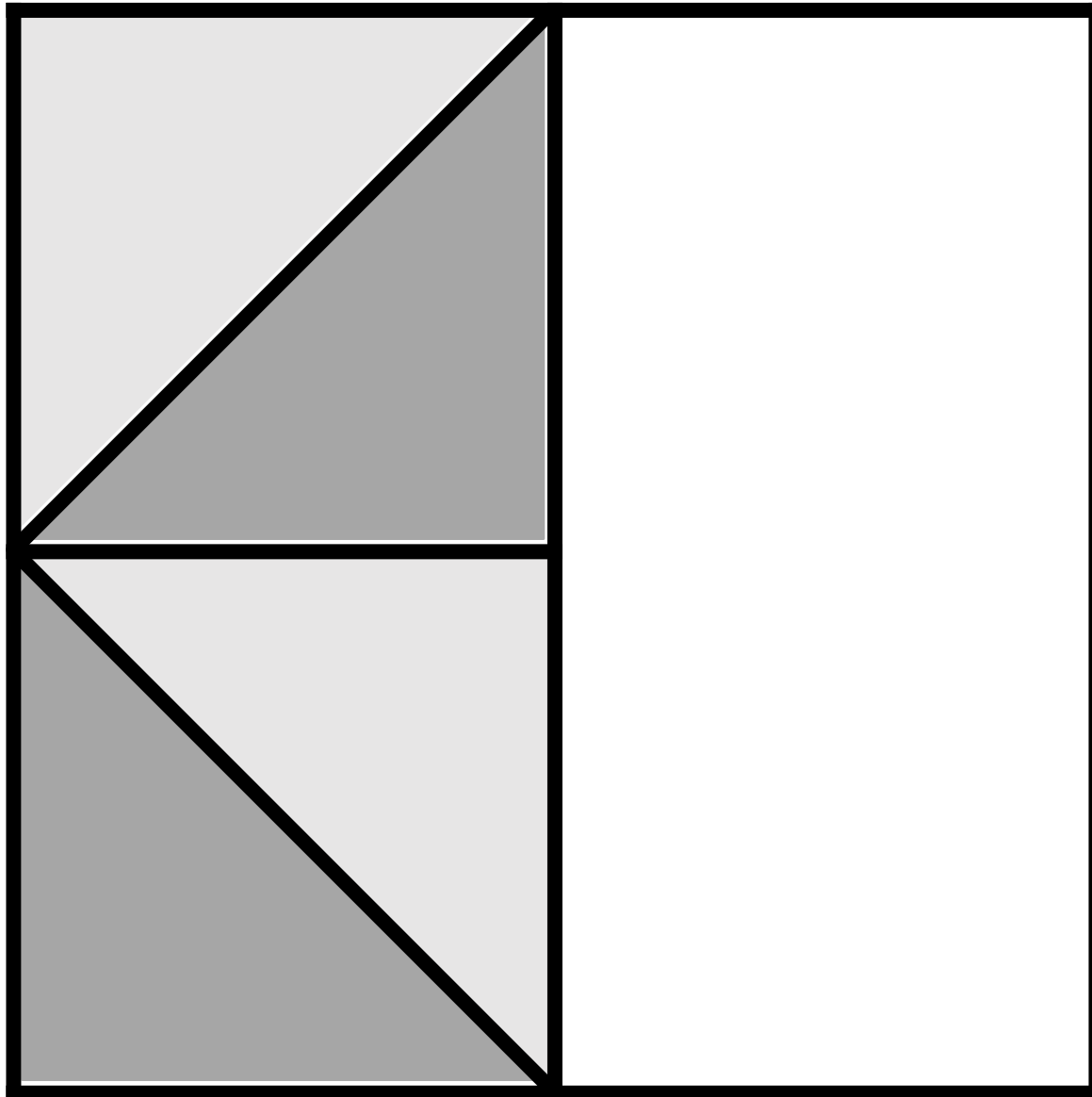
Combining Shapes

Task D Answers



Combining Shapes

Task D Answers

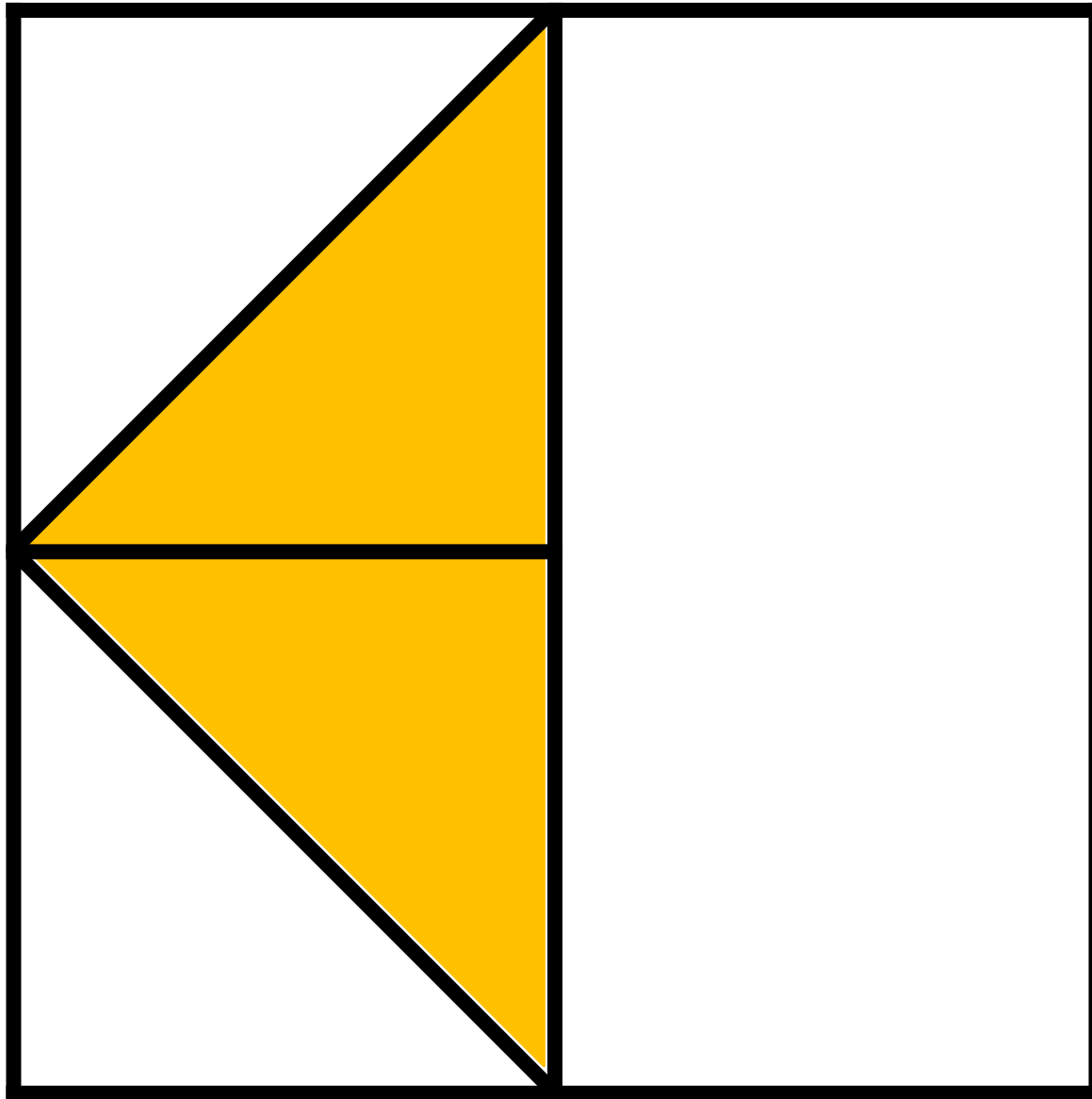


Triangles:

4

Combining Shapes

Task D Answers

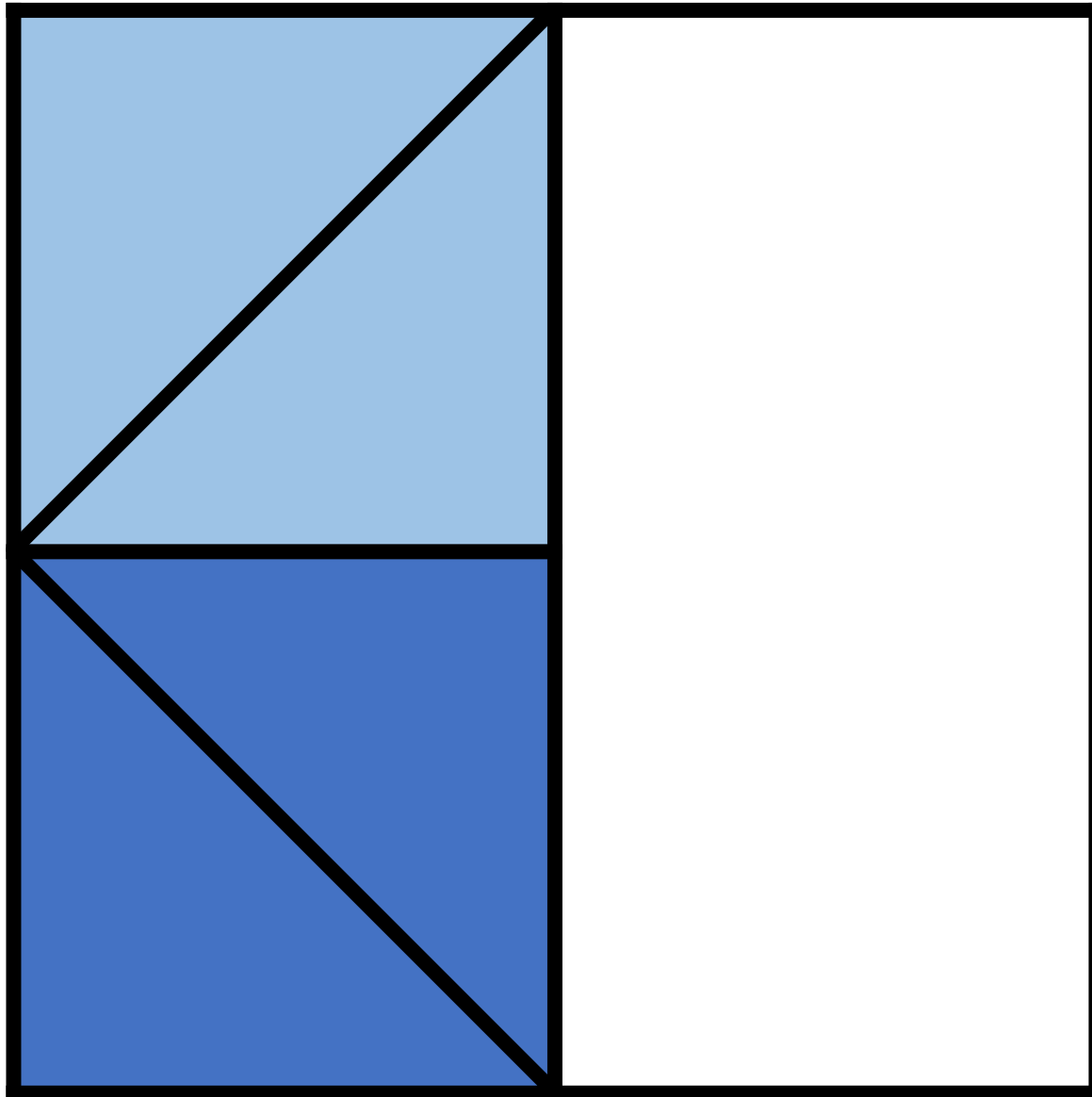


Triangles:

$$4 + 1 = 5$$

Combining Shapes

Task D Answers



Triangles:

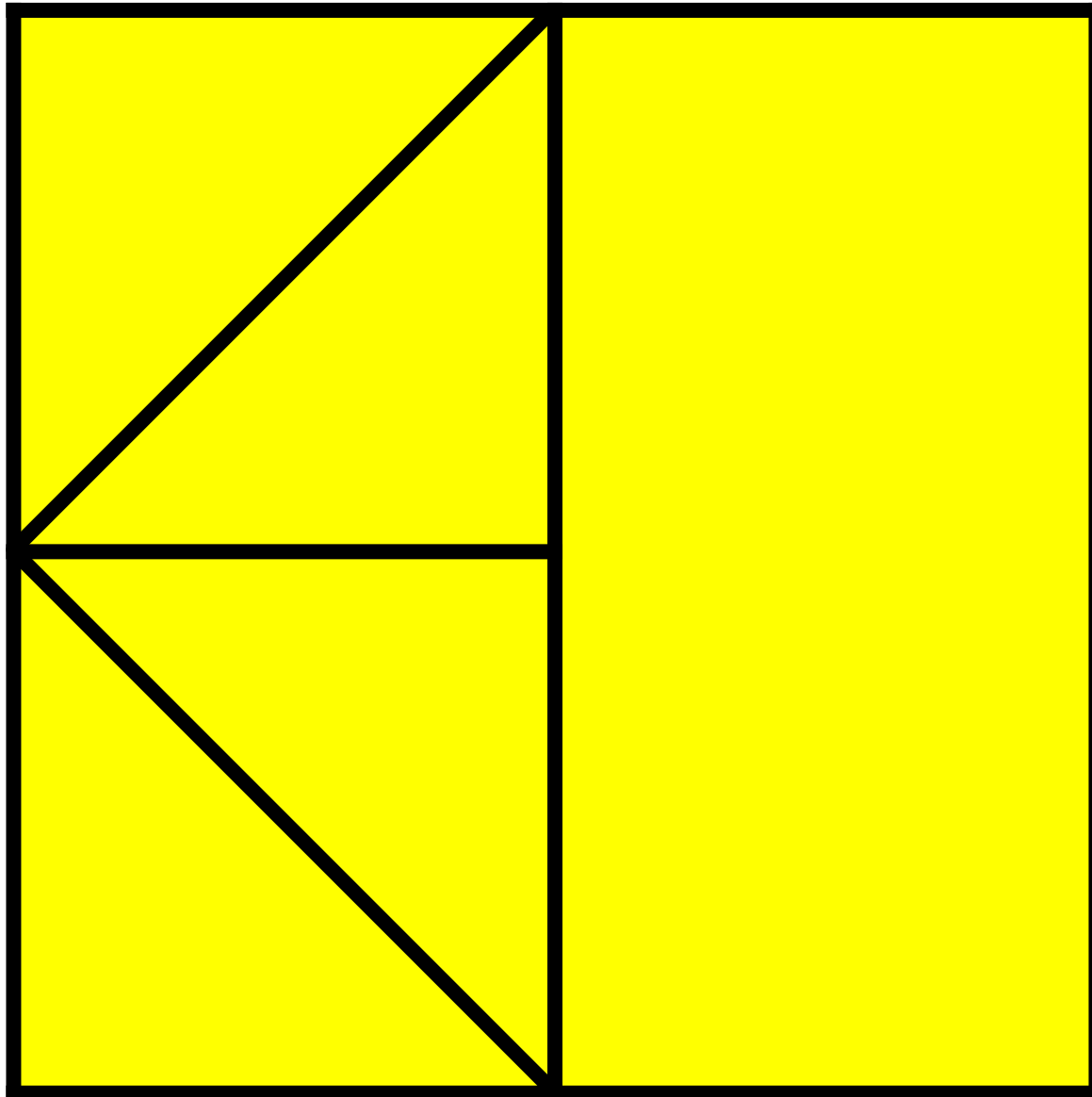
$$4 + 1 = 5$$

Squares:

2

Combining Shapes

Task D Answers



Triangles:

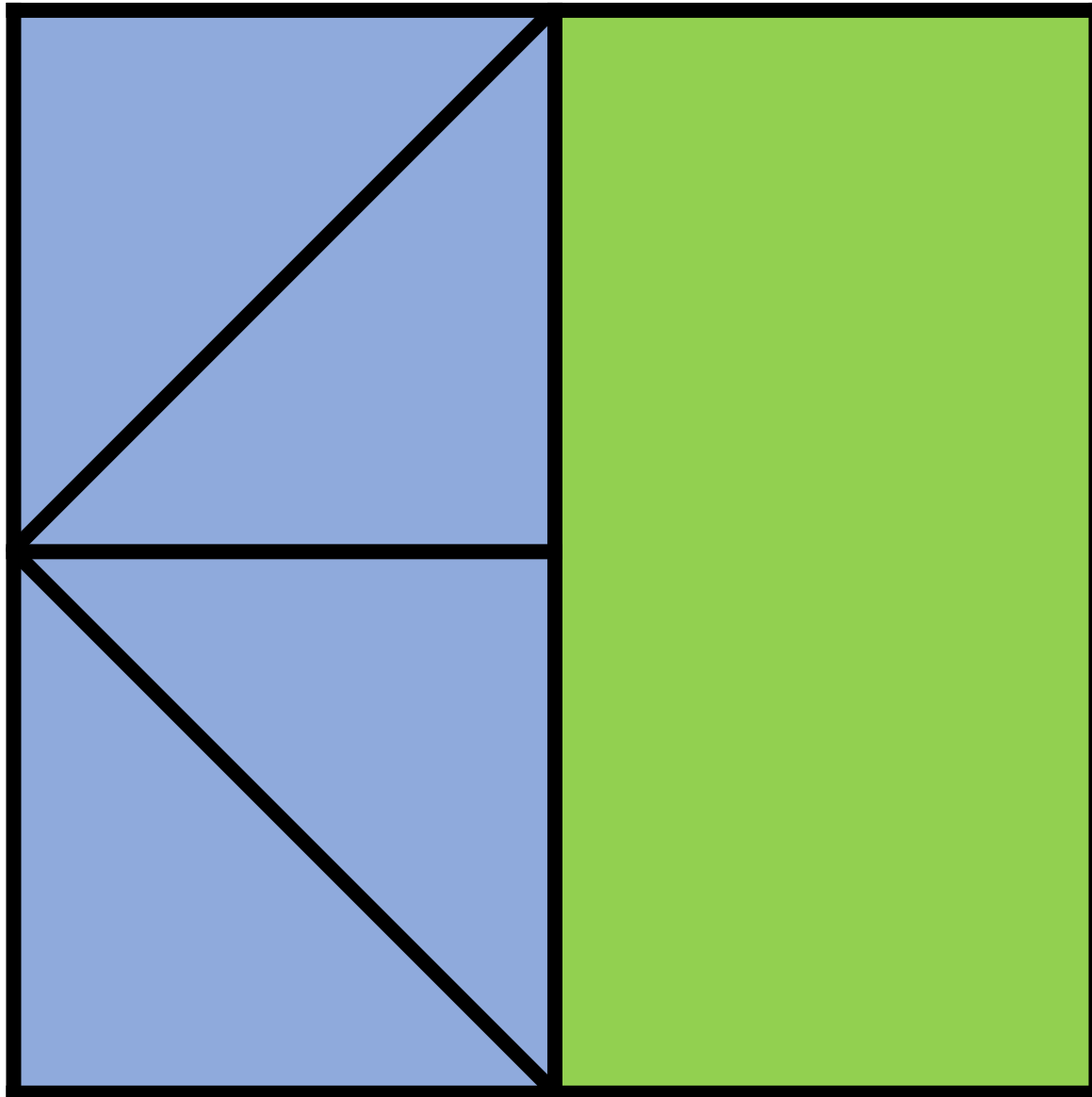
$$4 + 1 = 5$$

Squares:

$$2 + 1 = 3$$

Combining Shapes

Task D Answers



Triangles:

$$4 + 1 = 5$$

Squares:

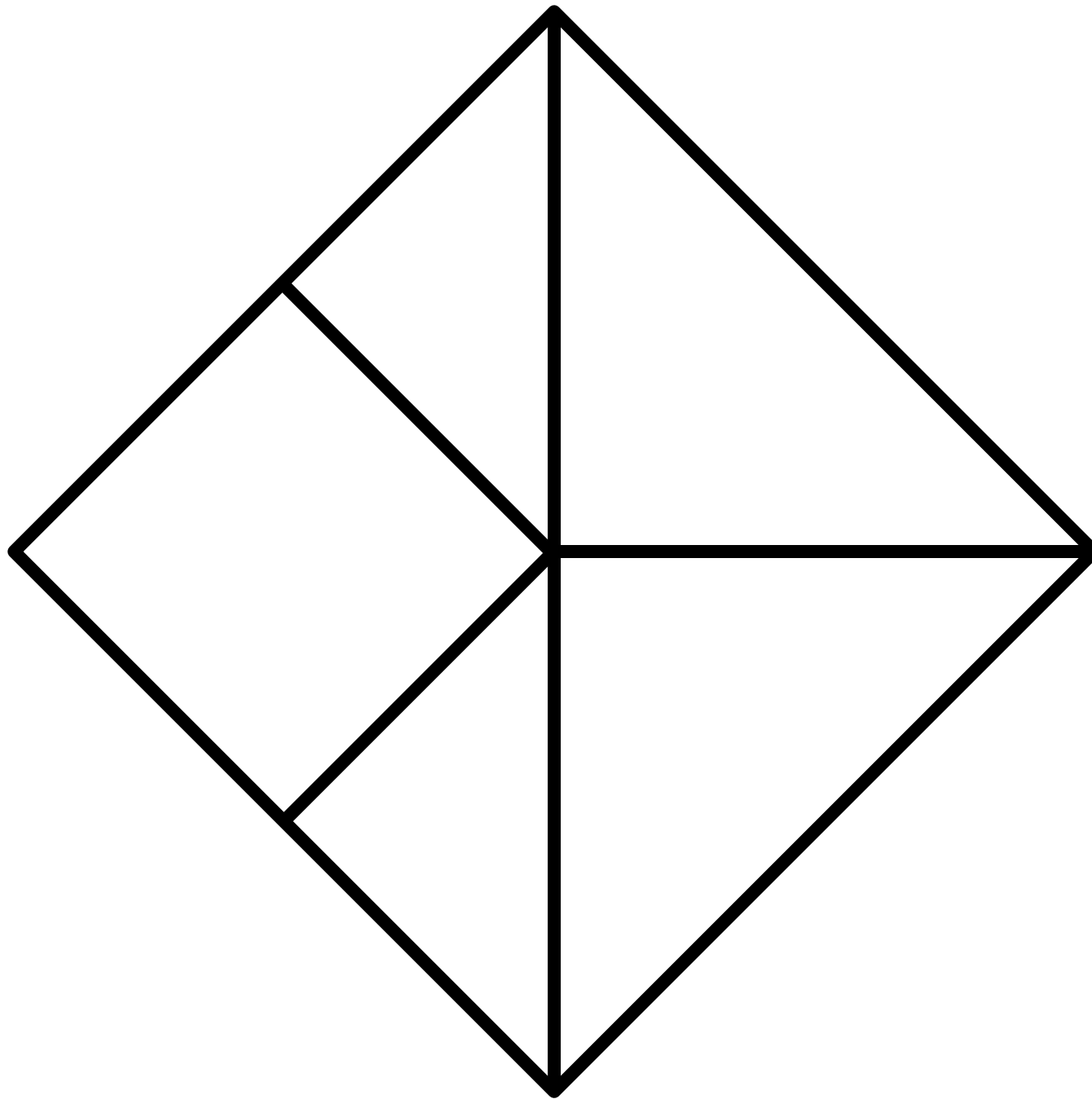
$$2 + 1 = 3$$

Rectangles:

2

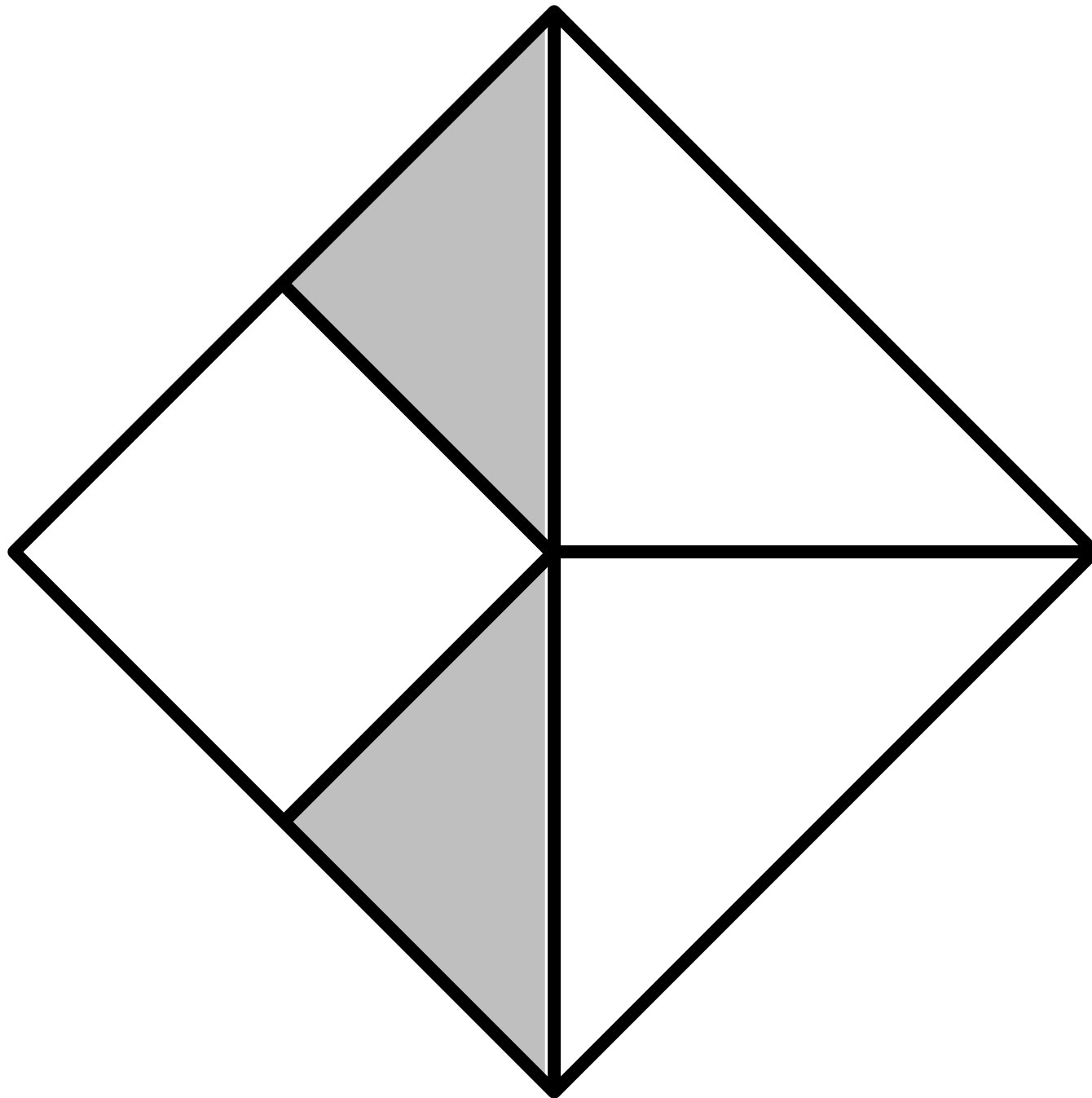
Combining Shapes

Task D Answers



Combining Shapes

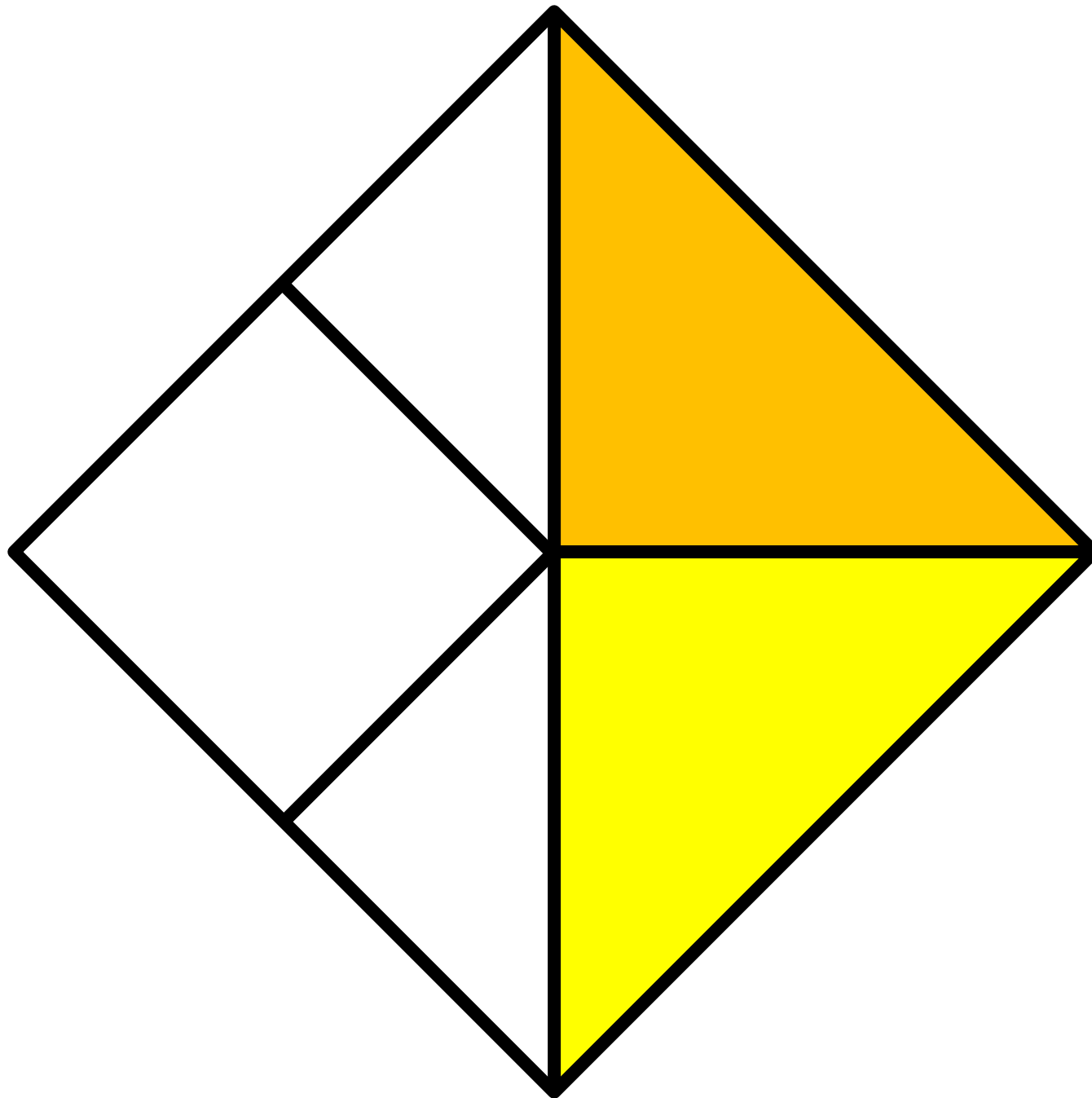
Task D Answers



Triangles:
2

Combining Shapes

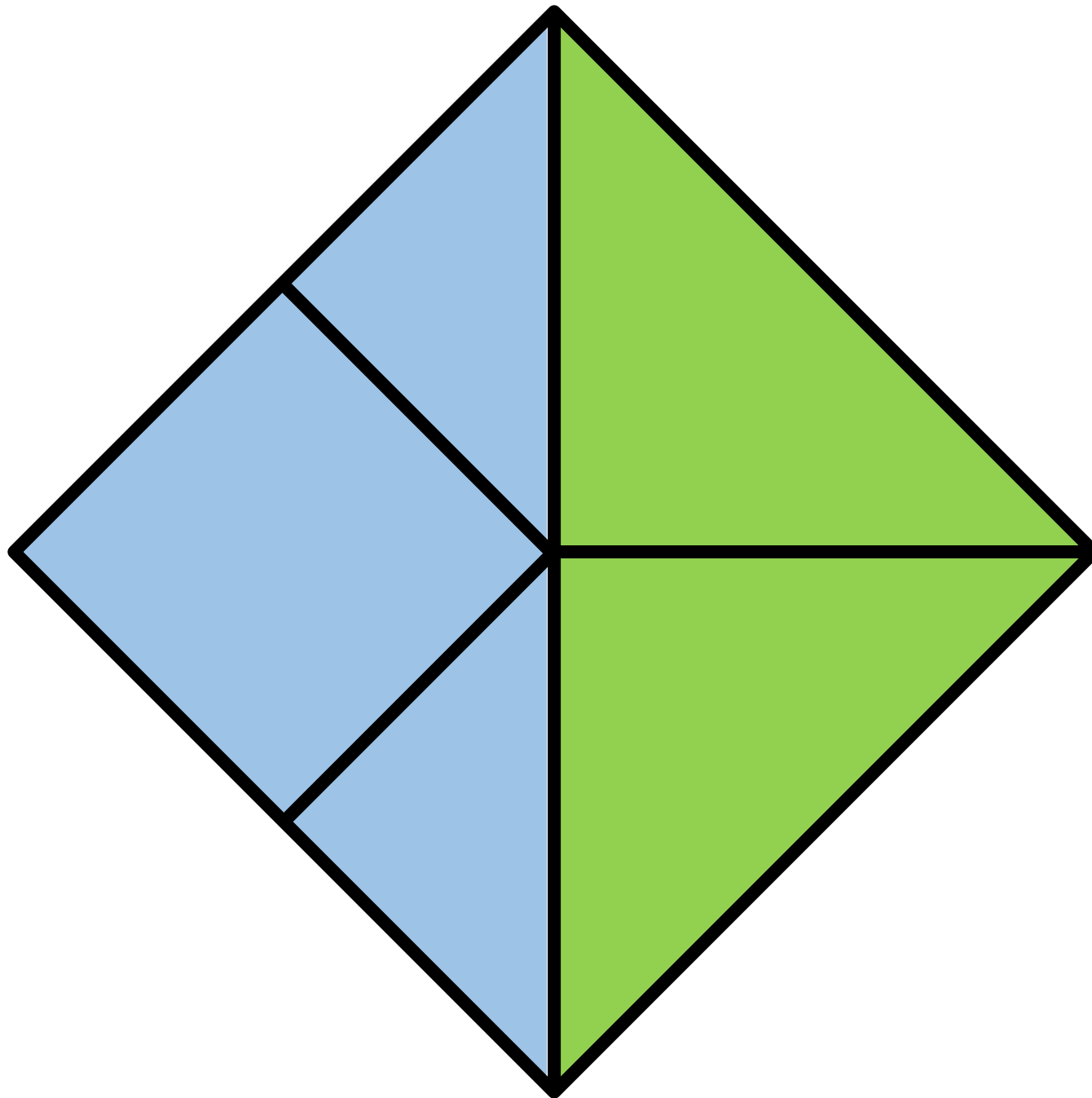
Task D Answers



Triangles:
2 + 2

Combining Shapes

Task D Answers

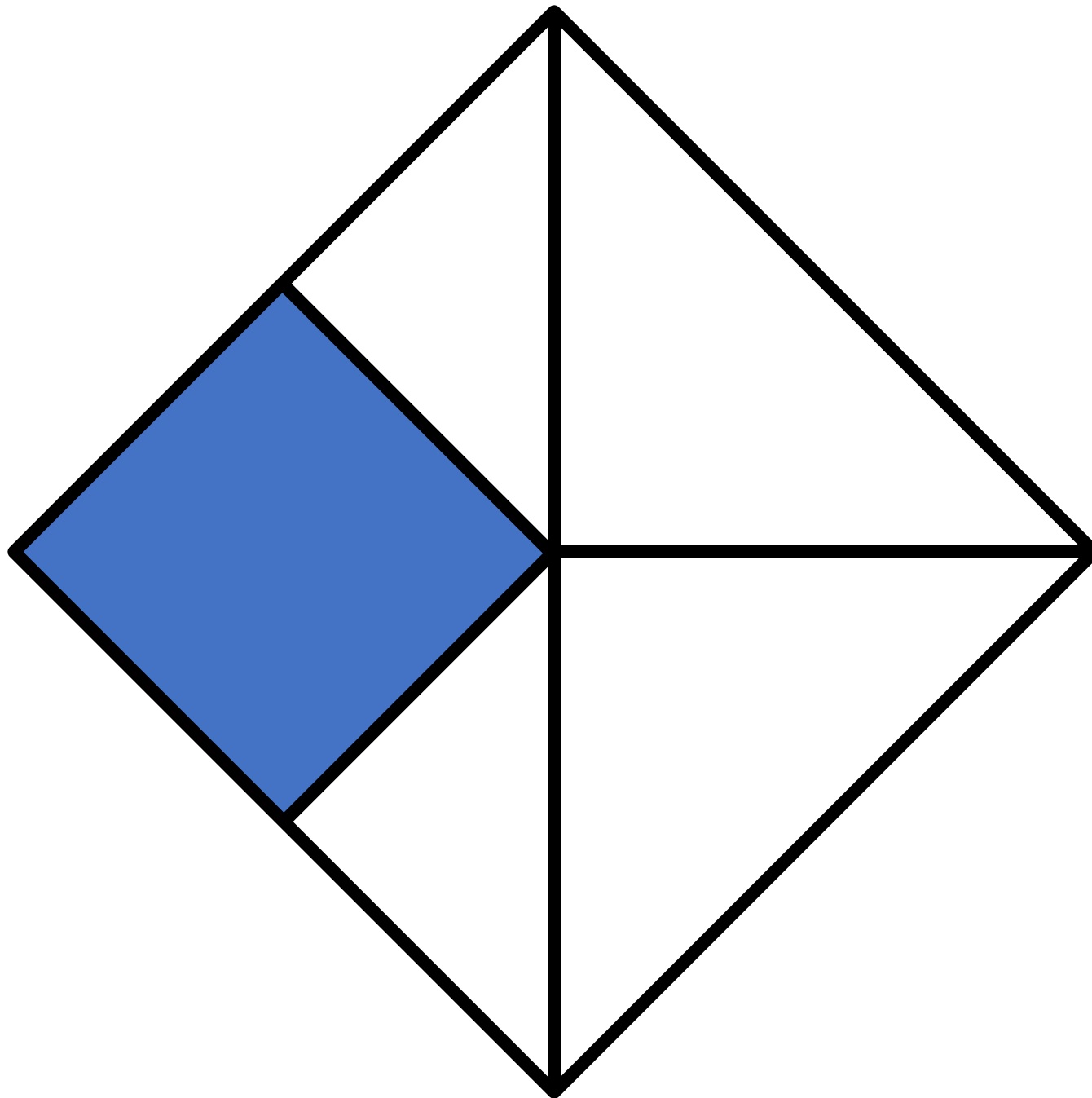


Triangles:

$$2 + 2 + 2 = 6$$

Combining Shapes

Task D Answers



Triangles:

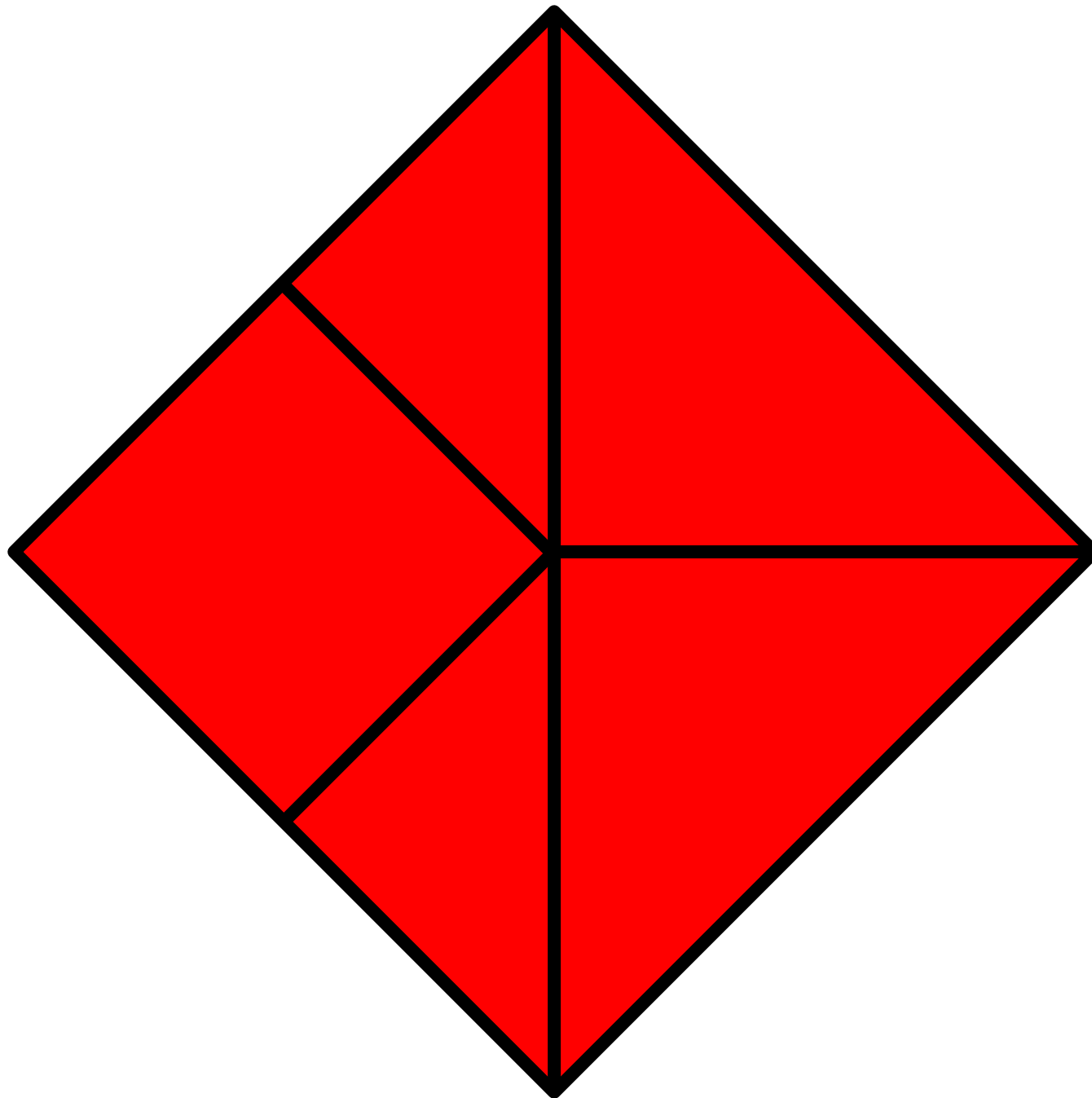
$$2 + 2 + 2 = 6$$

Squares:

1

Combining Shapes

Task D Answers



Triangles:

$$2 + 2 + 2 = 6$$

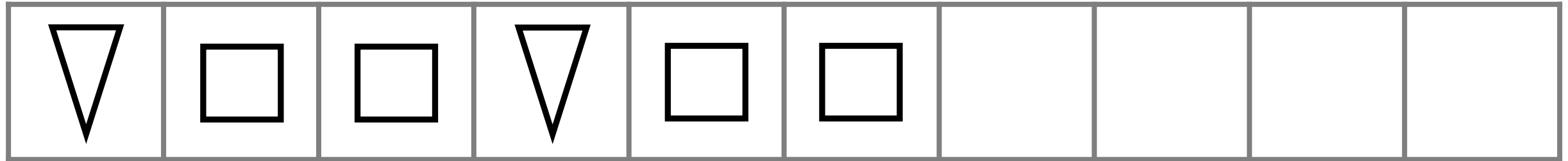
Squares:

$$1 + 1 = 2$$

Shape Patterns

Part 1

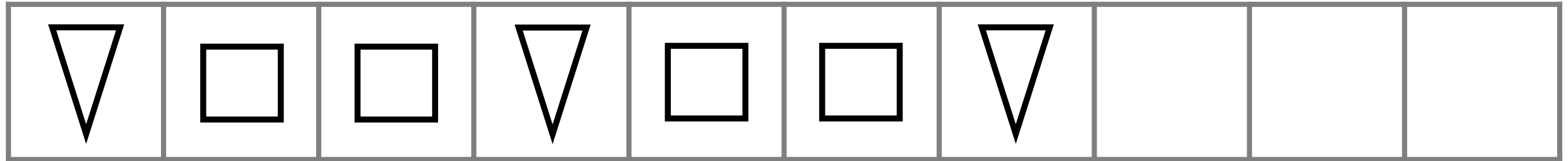
Continue the pattern:



Shape Patterns

Part 1

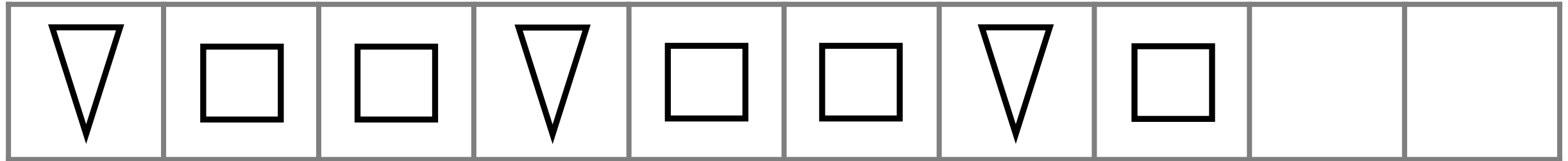
Continue the pattern:



Shape Patterns

Part 1

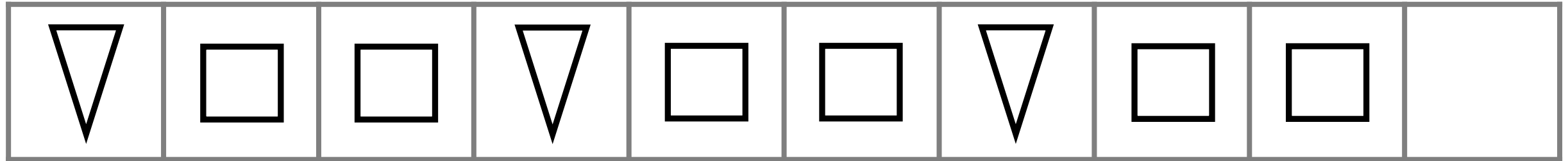
Continue the pattern:



Shape Patterns

Part 1

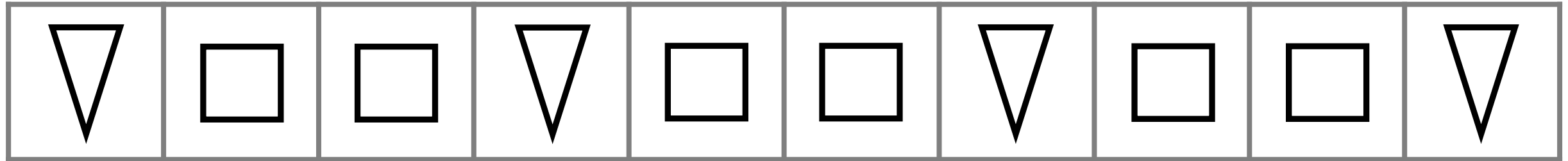
Continue the pattern:



Shape Patterns

Part 1

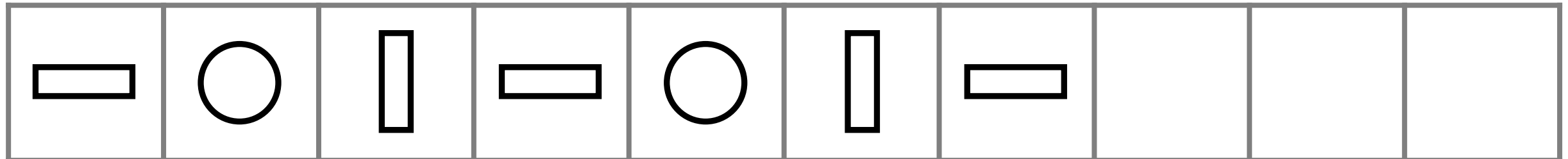
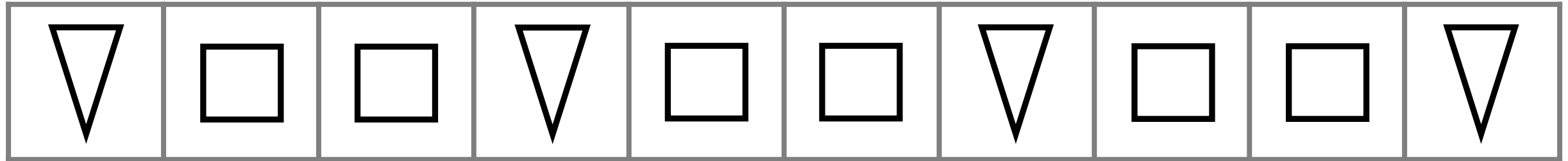
Continue the pattern:



Shape Patterns

Part 1

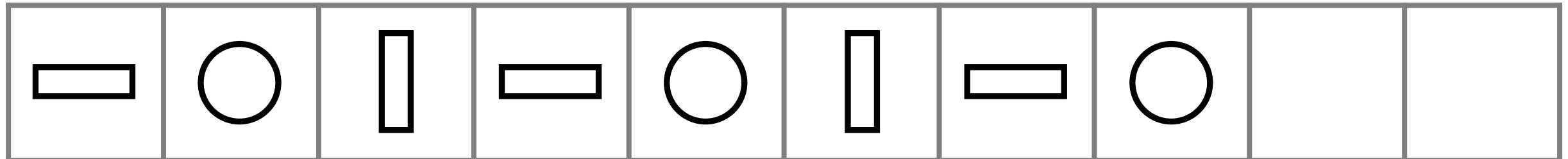
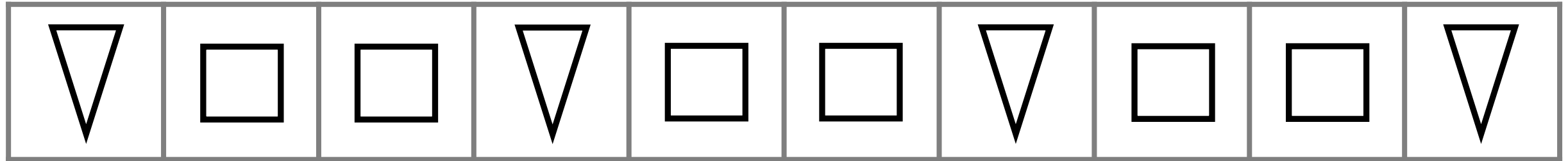
Continue the pattern:



Shape Patterns

Part 1

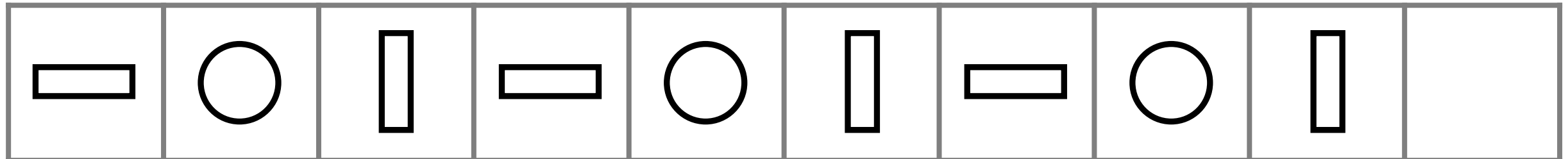
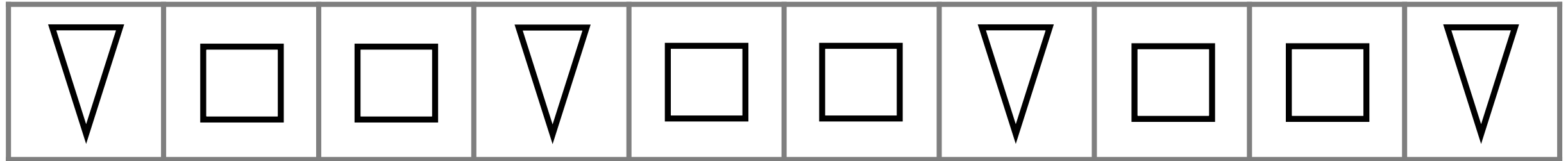
Continue the pattern:



Shape Patterns

Part 1

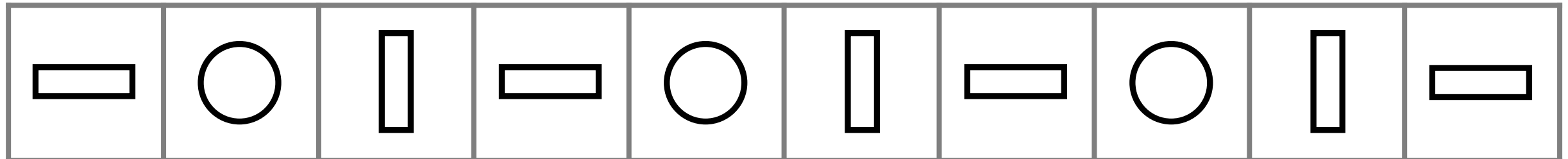
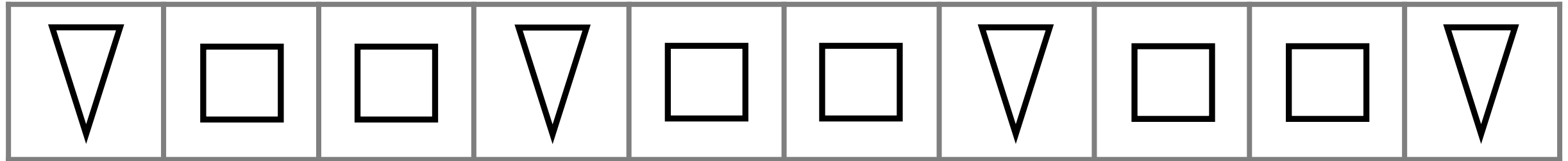
Continue the pattern:



Shape Patterns

Part 1

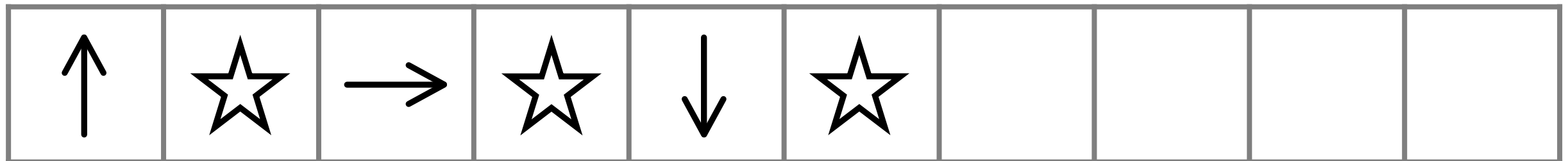
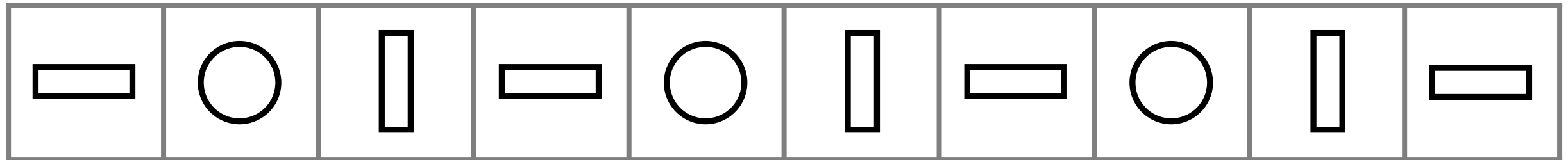
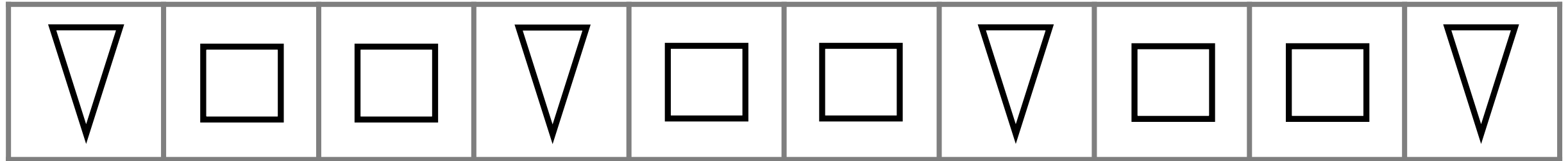
Continue the pattern:



Shape Patterns

Part 1

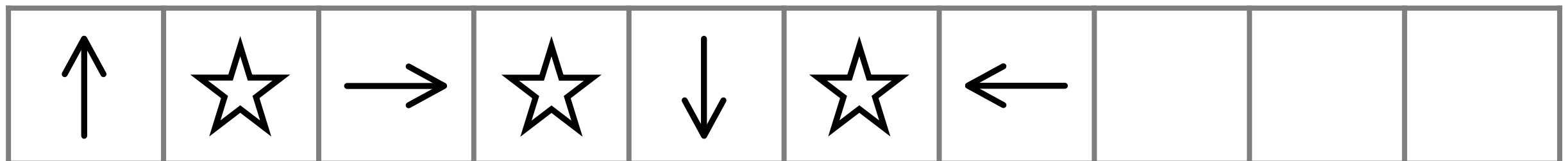
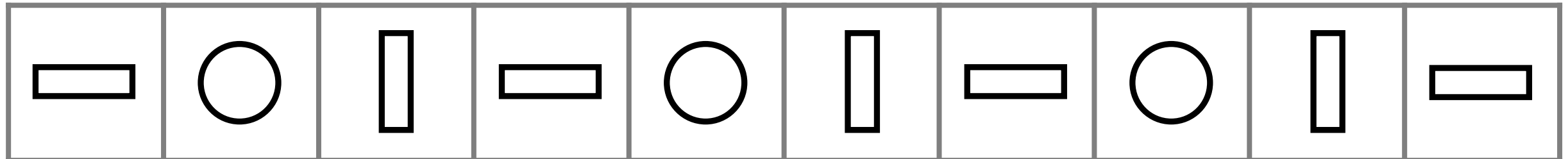
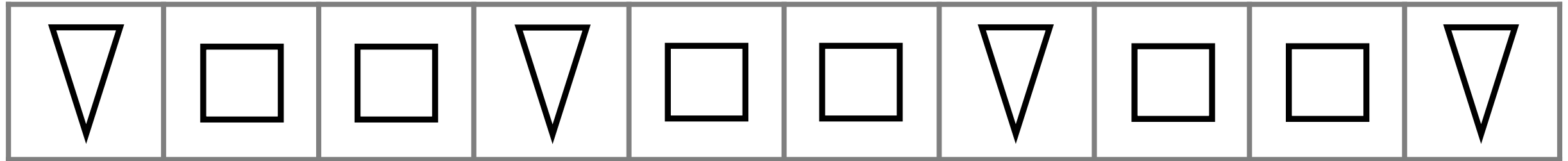
Continue the pattern:



Shape Patterns

Part 1

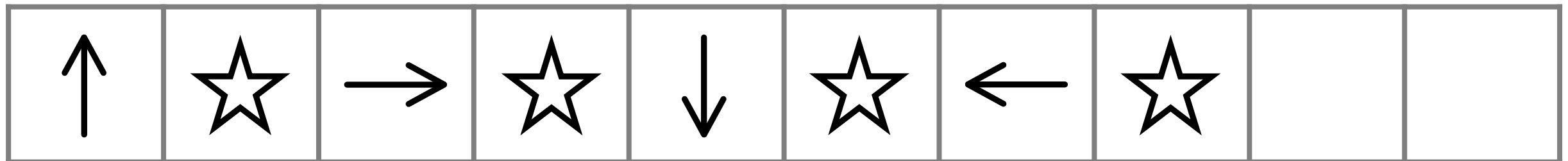
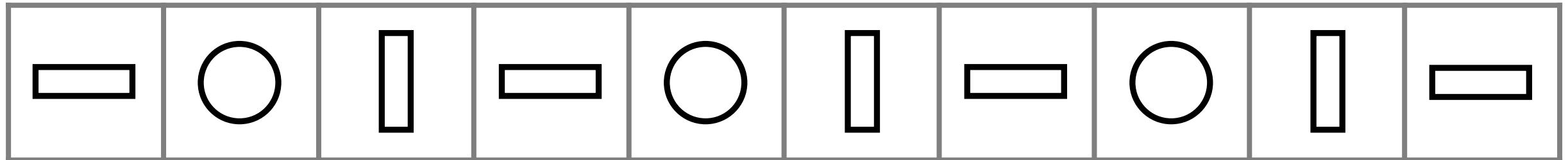
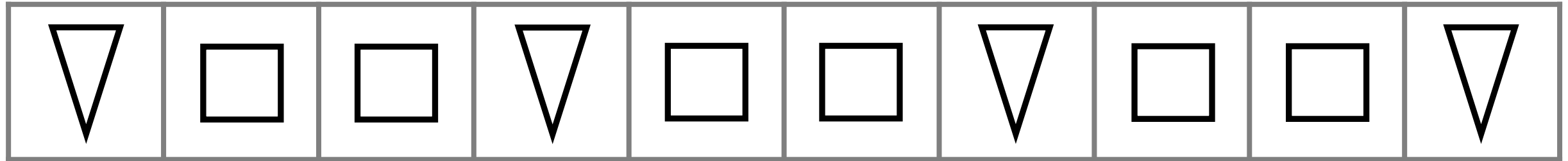
Continue the pattern:



Shape Patterns

Part 1

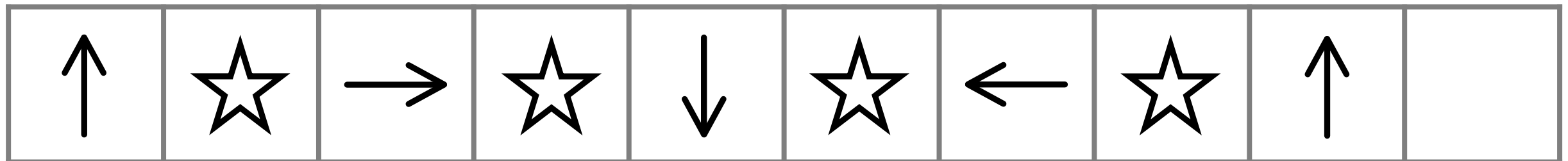
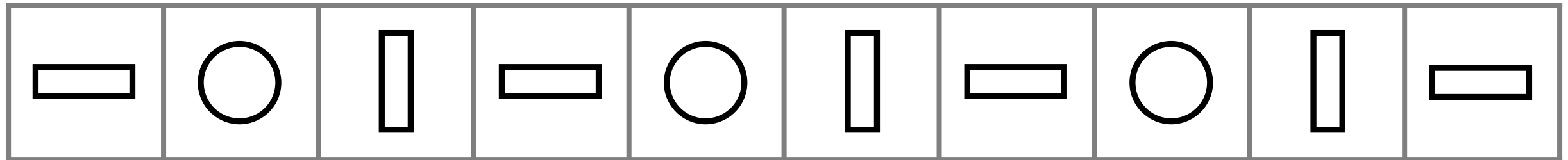
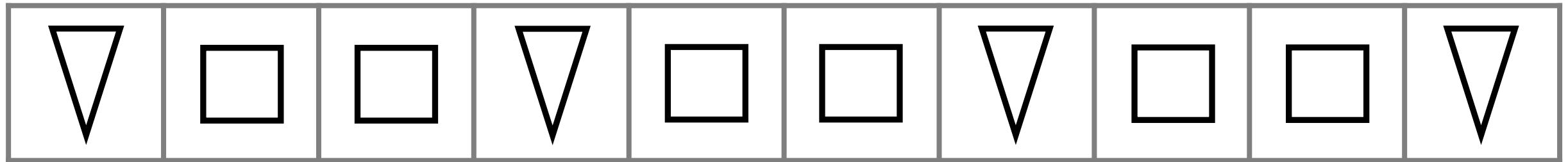
Continue the pattern:



Shape Patterns

Part 1

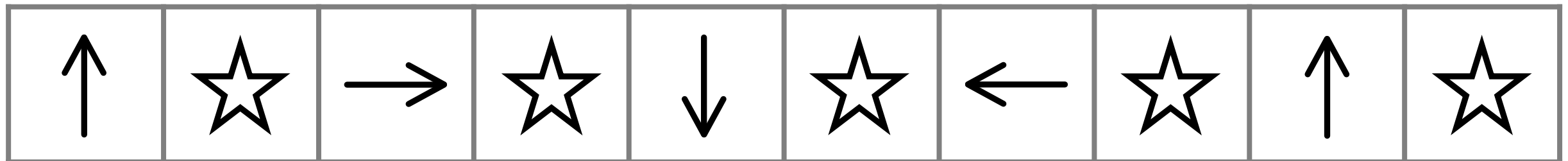
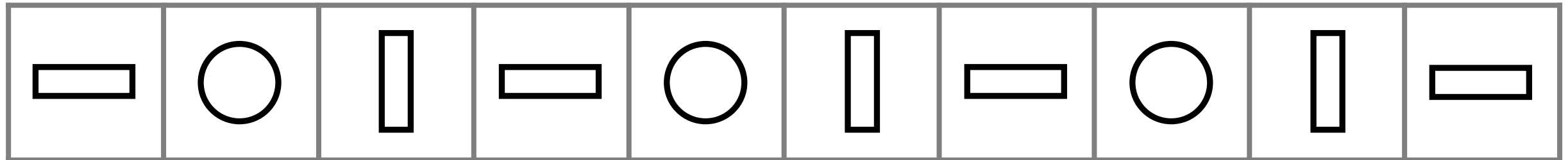
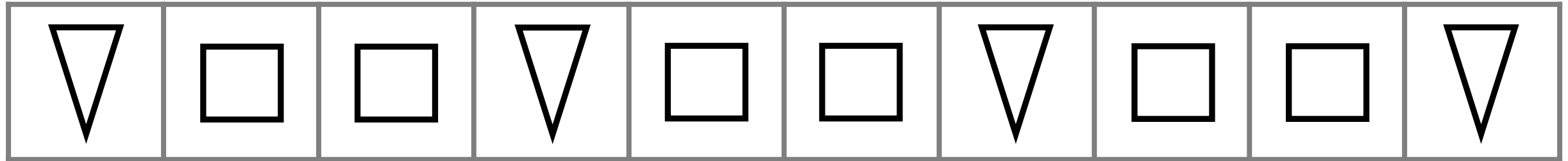
Continue the pattern:



Shape Patterns

Part 1

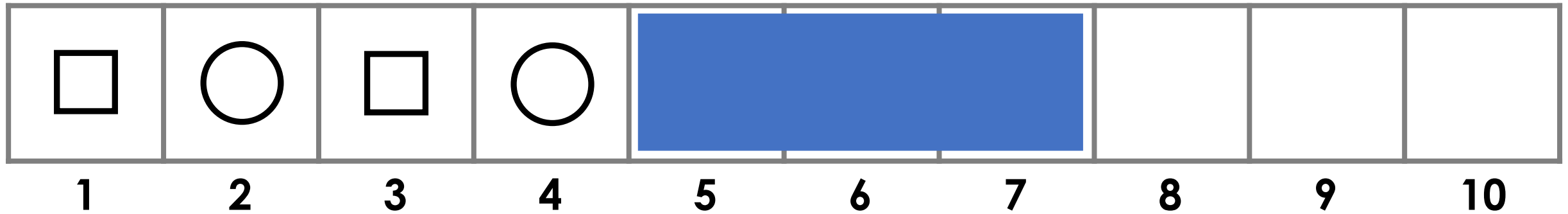
Continue the pattern:



Shape Patterns

Part 2


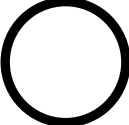

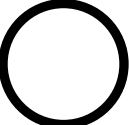

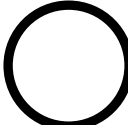
Fill in the white gaps to continue the pattern:



Shape Patterns

Part 2


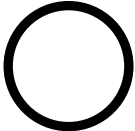
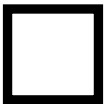
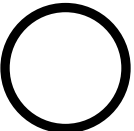

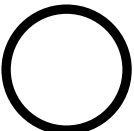

Fill in the white gaps to continue the pattern:

									
1	2	3	4	5	6	7	8	9	10

Shape Patterns

Part 2


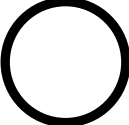

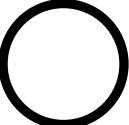

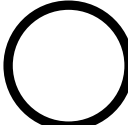

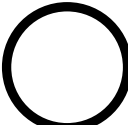
Fill in the white gaps to continue the pattern:

									
1	2	3	4	5	6	7	8	9	10

Shape Patterns

Part 2


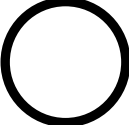

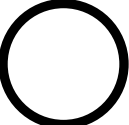
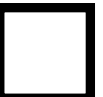
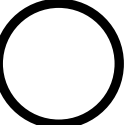

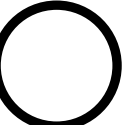

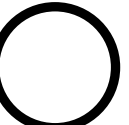
Fill in the white gaps to continue the pattern:

									
1	2	3	4	5	6	7	8	9	10

Shape Patterns

Part 2


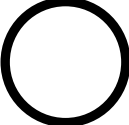

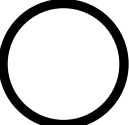

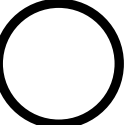

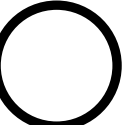

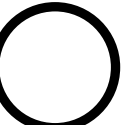
Fill in the white gaps to continue the pattern:







									
1	2	3	4	5	6	7	8	9	10

Shape Patterns

Part 2

Fill in the white gaps to continue the pattern:


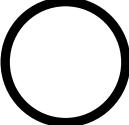

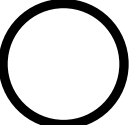

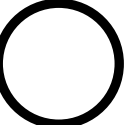

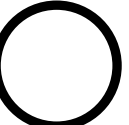

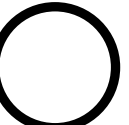
									
1	2	3	4	5	6	7	8	9	10




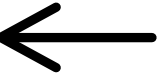



									
1	2	3	4	5	6	7	8	9	10

Shape Patterns

Part 2

Fill in the white gaps to continue the pattern:


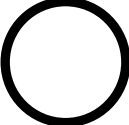

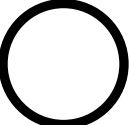

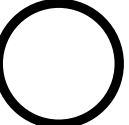

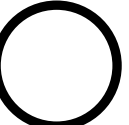

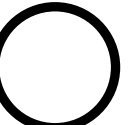
									
1	2	3	4	5	6	7	8	9	10




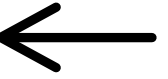




									
1	2	3	4	5	6	7	8	9	10

Shape Patterns

Part 2

Fill in the white gaps to continue the pattern:


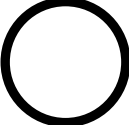

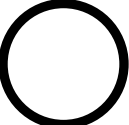

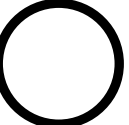

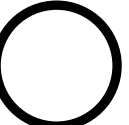

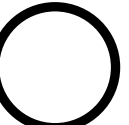
									
1	2	3	4	5	6	7	8	9	10




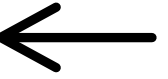





									
1	2	3	4	5	6	7	8	9	10

Shape Patterns

Part 2

Fill in the white gaps to continue the pattern:


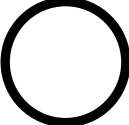

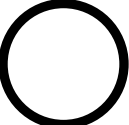

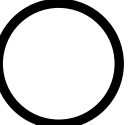

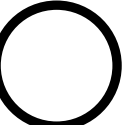

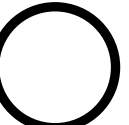
									
1	2	3	4	5	6	7	8	9	10











									
1	2	3	4	5	6	7	8	9	10

Shape Patterns

Part 2

Fill in the white gaps to continue the pattern:


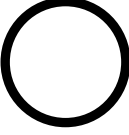

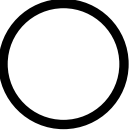

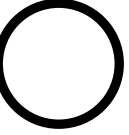

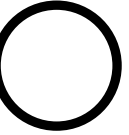

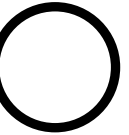
									
1	2	3	4	5	6	7	8	9	10











									
1	2	3	4	5	6	7	8	9	10


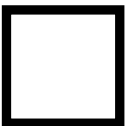

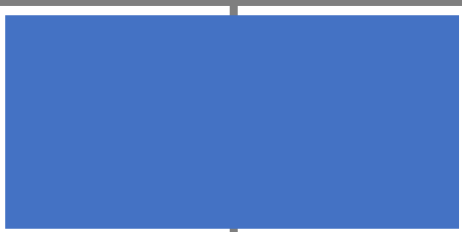


Shape Patterns

Part 2

Fill in the white gaps to continue the pattern:

									
1	2	3	4	5	6	7	8	9	10


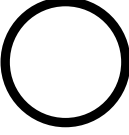

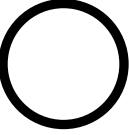

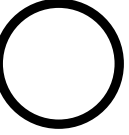

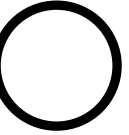

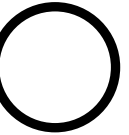
									
1	2	3	4	5	6	7	8	9	10











									
1	2	3	4	5	6	7	8	9	10


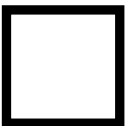





Shape Patterns

Part 2

Fill in the white gaps to continue the pattern:

									
1	2	3	4	5	6	7	8	9	10


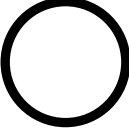

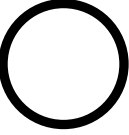

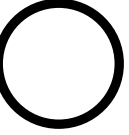

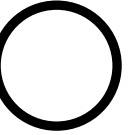

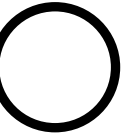
									
1	2	3	4	5	6	7	8	9	10











									
1	2	3	4	5	6	7	8	9	10


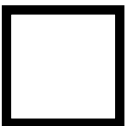

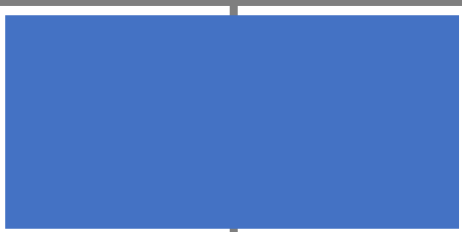




Shape Patterns

Part 2

Fill in the white gaps to continue the pattern:

									
1	2	3	4	5	6	7	8	9	10


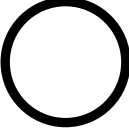

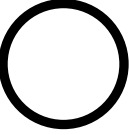

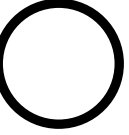

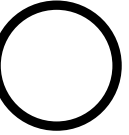

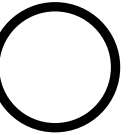
									
1	2	3	4	5	6	7	8	9	10











									
1	2	3	4	5	6	7	8	9	10


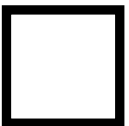

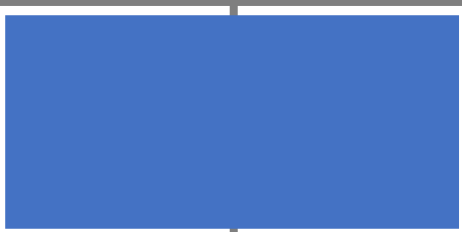





Shape Patterns

Part 2

Fill in the white gaps to continue the pattern:

									
1	2	3	4	5	6	7	8	9	10


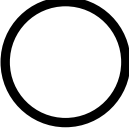

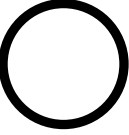

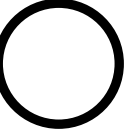

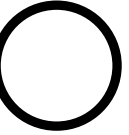

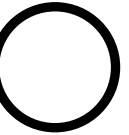
									
1	2	3	4	5	6	7	8	9	10











									
1	2	3	4	5	6	7	8	9	10

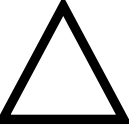




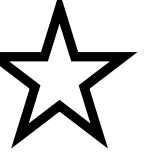
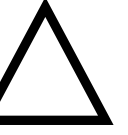



Shape Patterns

Part 2

Fill in the white gaps to continue the pattern:

									
1	2	3	4	5	6	7	8	9	10

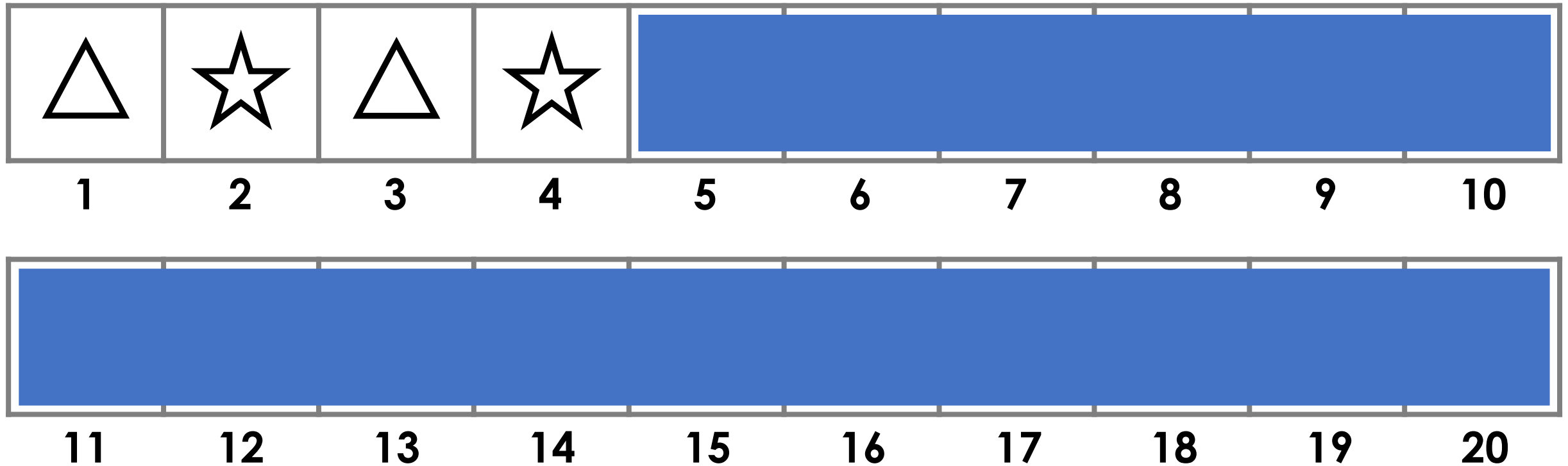
									
1	2	3	4	5	6	7	8	9	10

									
1	2	3	4	5	6	7	8	9	10

Shape Patterns

Part 3

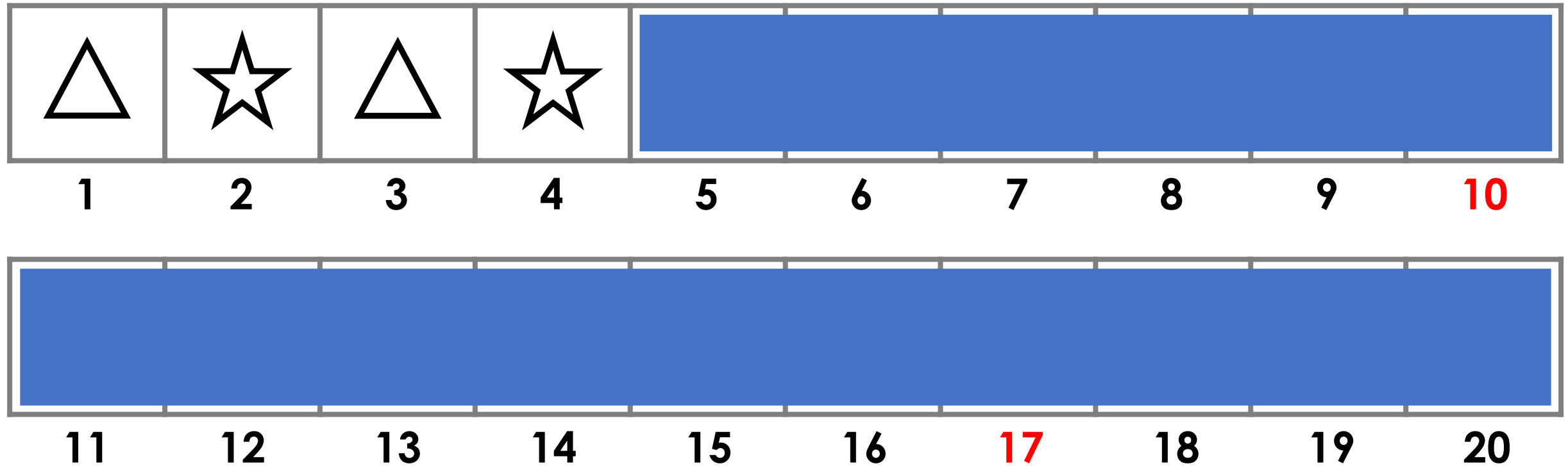
Here is a pattern:



Shape Patterns

Part 3

Here is a pattern:



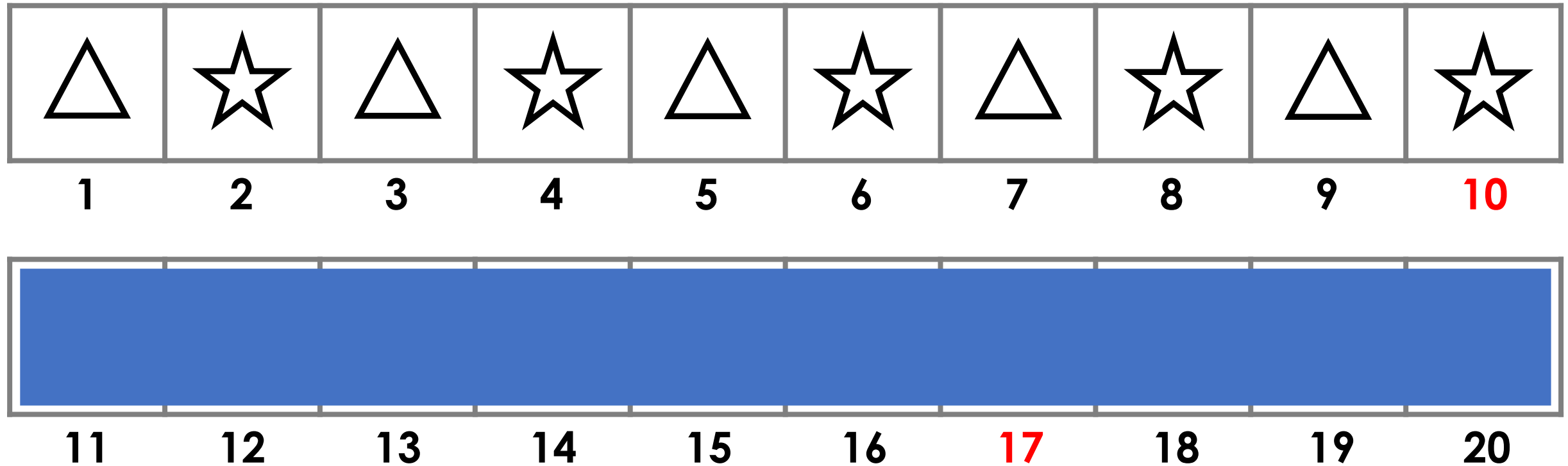
What is the 10th shape in the pattern?

What is the 17th shape in the pattern?

Shape Patterns

Part 3

Here is a pattern:



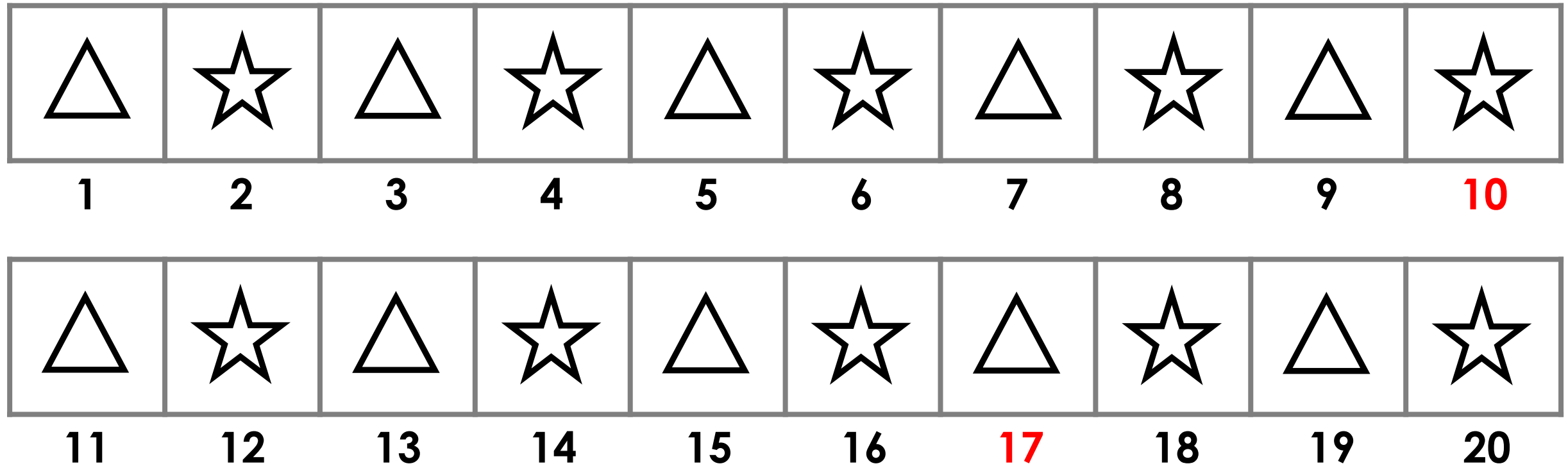
What is the 10th shape in the pattern?

What is the 17th shape in the pattern?

Shape Patterns

Part 3

Here is a pattern:



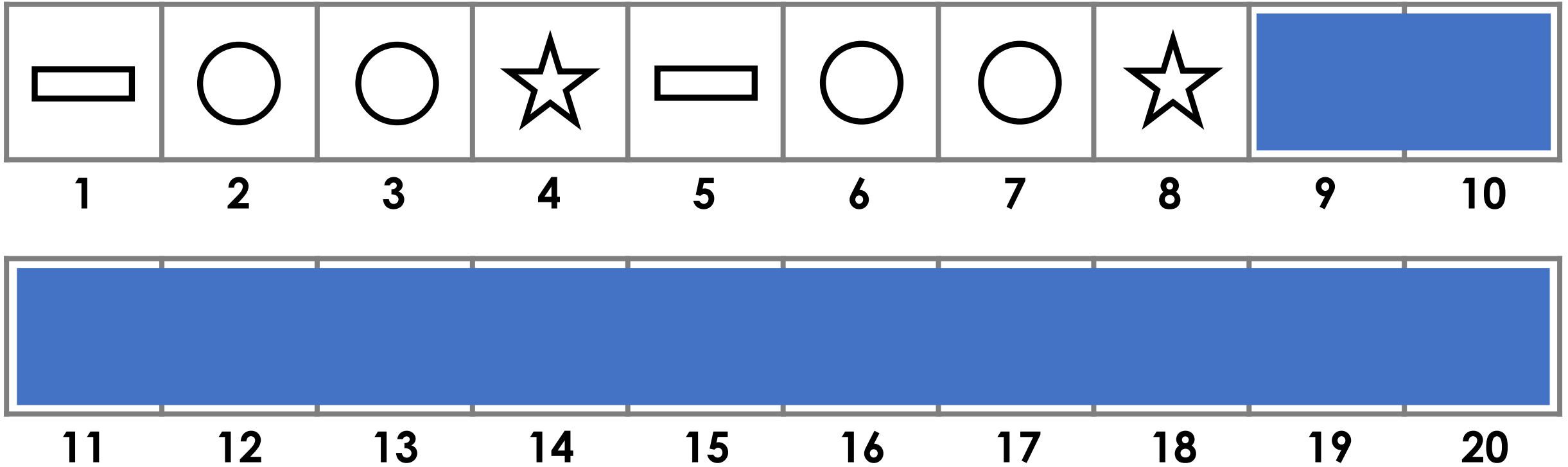
What is the 10th shape in the pattern?

What is the 17th shape in the pattern?

Shape Patterns

Part 3

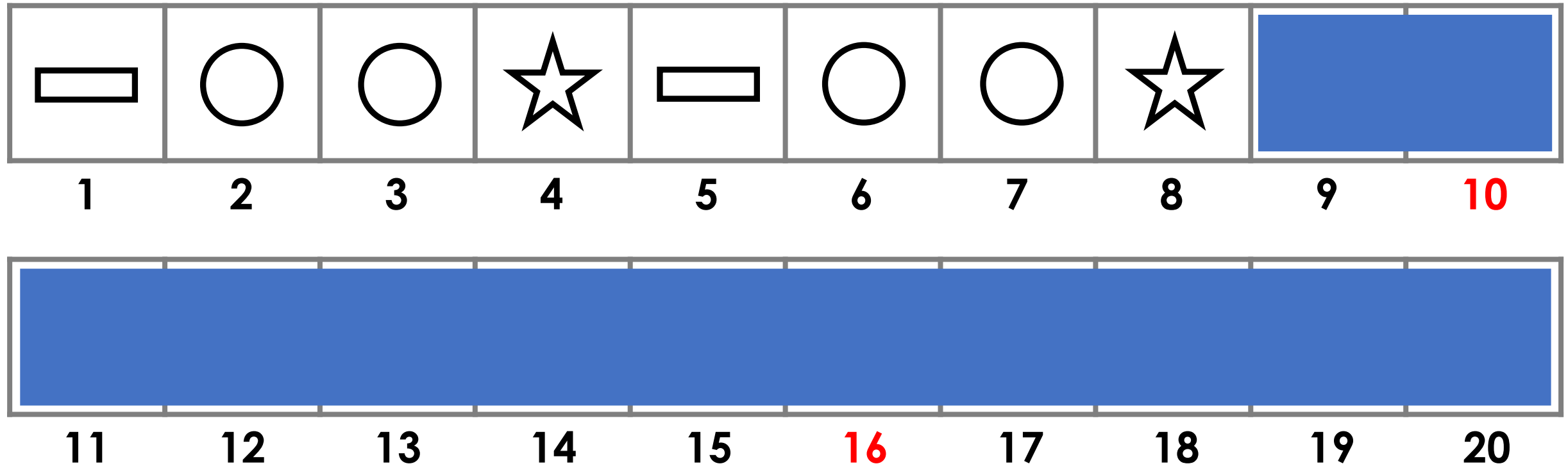
Here is a pattern:



Shape Patterns

Part 3

Here is a pattern:



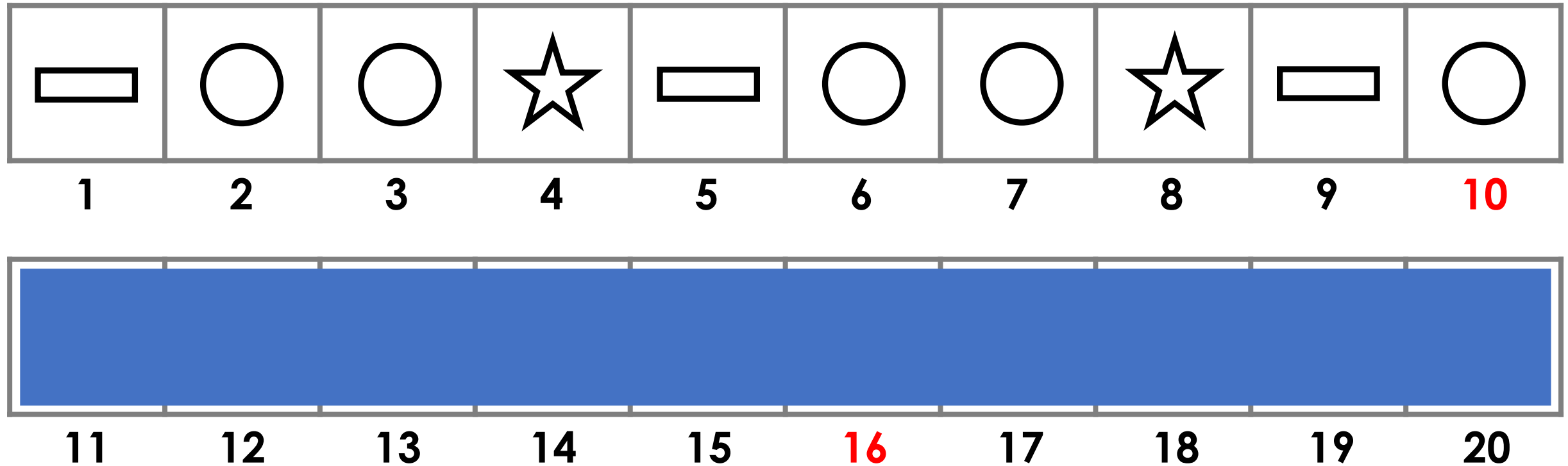
What is the 10th shape in the pattern?

What is the 16th shape in the pattern?

Shape Patterns

Part 3

Here is a pattern:



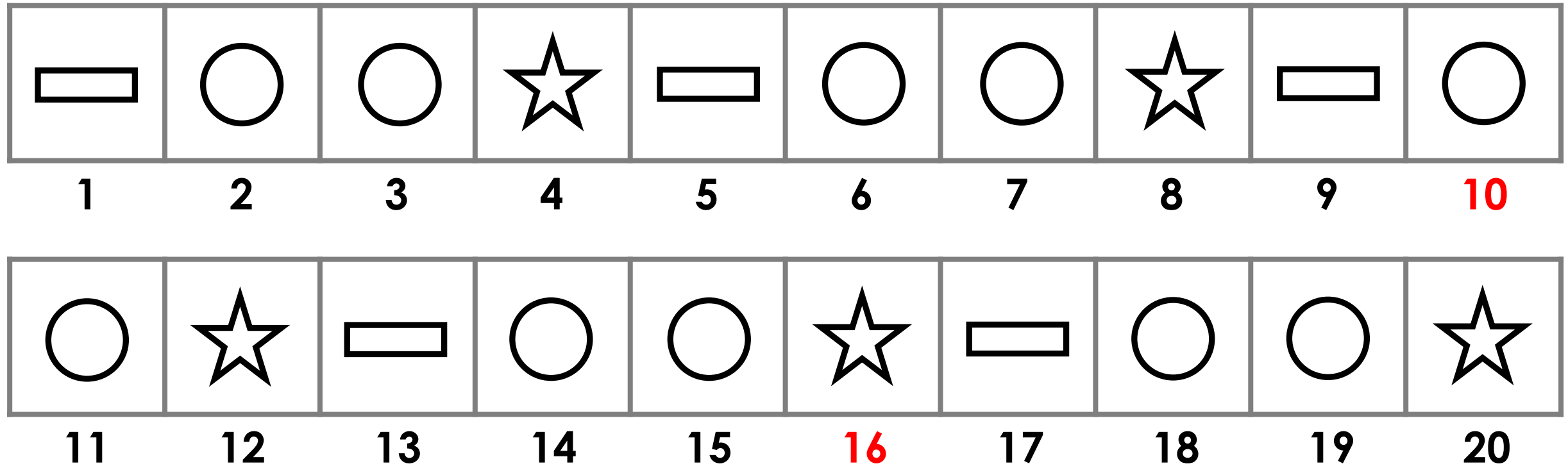
What is the 10th shape in the pattern?

What is the 16th shape in the pattern?

Shape Patterns

Part 3

Here is a pattern:



What is the 10th shape in the pattern?

What is the 16th shape in the pattern?

Asking Questions

Part 1

For the question, **would you show the answer as a graph?**

I would use a graph because...

I would not use a graph because...

For the question, **would you show the answer as a graph?**

What is the name of your school?

I would use a graph because...

I would not use a graph because...

For the question, **would you show the answer as a graph?**

How many classrooms are there in your school?

I would use a graph because...

I would not use a graph because...

For the question, **would you show the answer as a graph?**

How did the children in the class travel to school this morning?

I would use a graph because...

I would not use a graph because...

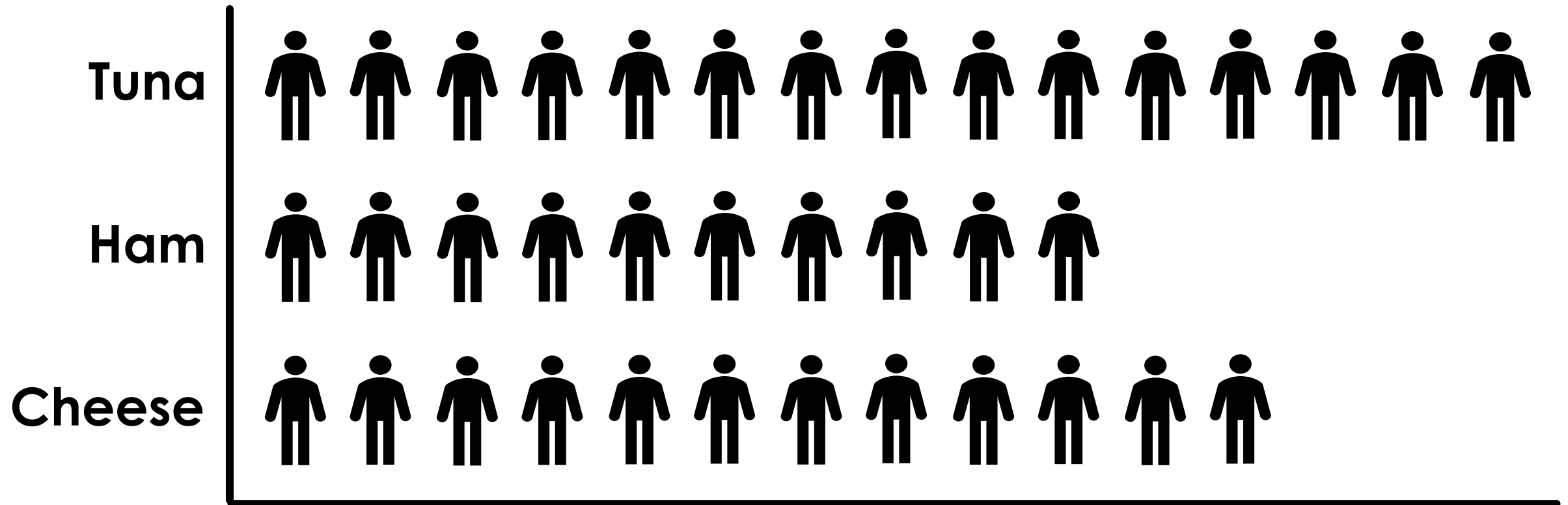
For the question, **would you show the answer as a graph?**

What colour are the cars parked in the school car park?

I would use a graph because...

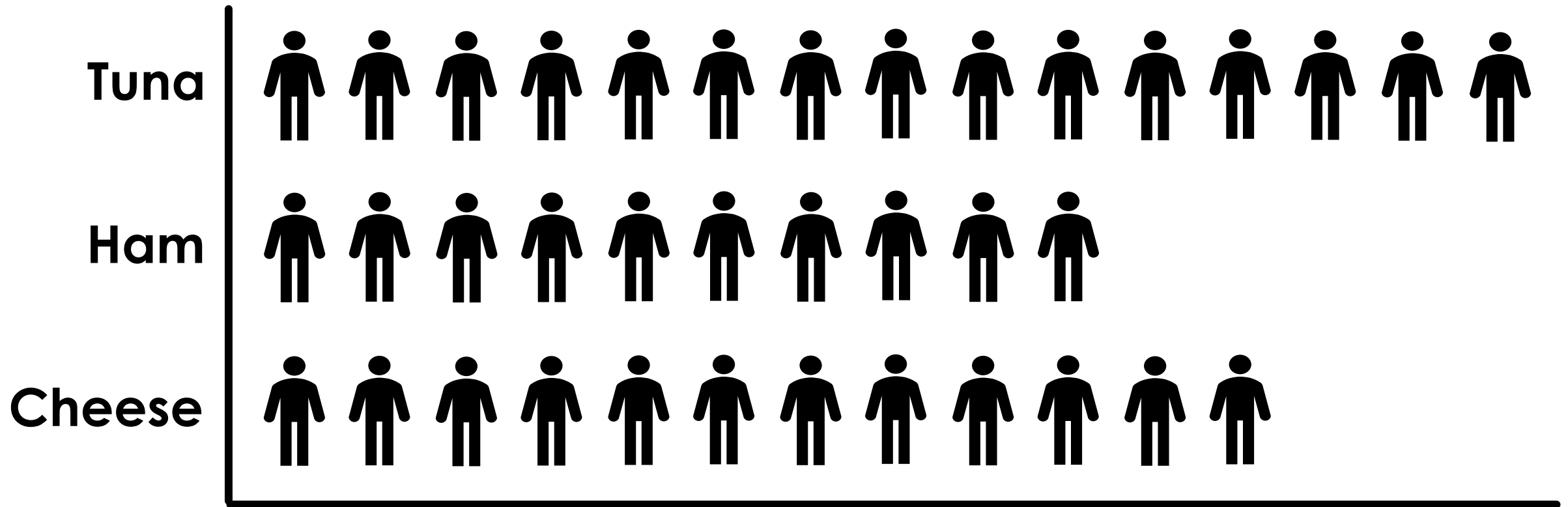
I would not use a graph because...

Sandwich Chosen for School Lunch



What do you notice?

Sandwich Chosen for School Lunch

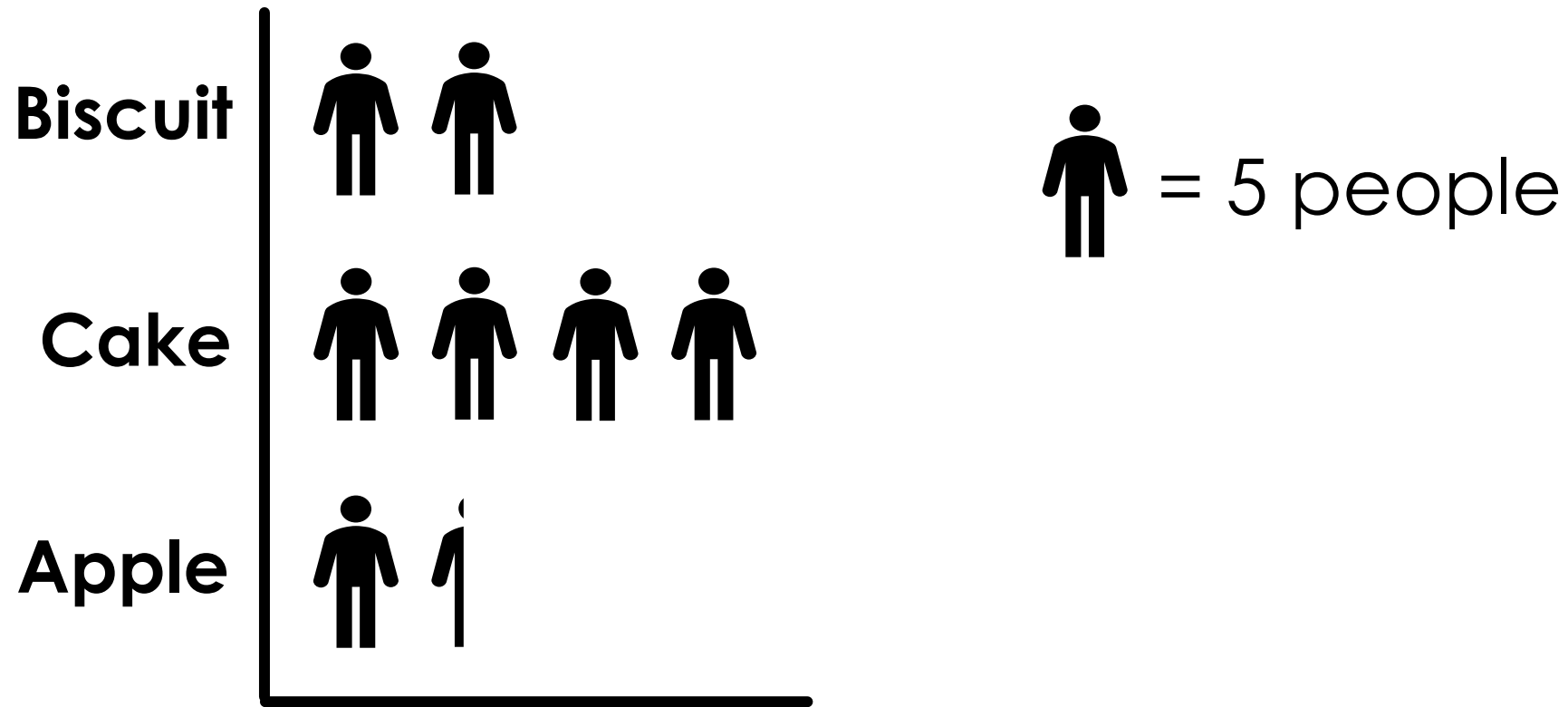


The sandwich that was chosen the most was...

... more children chose tuna than...

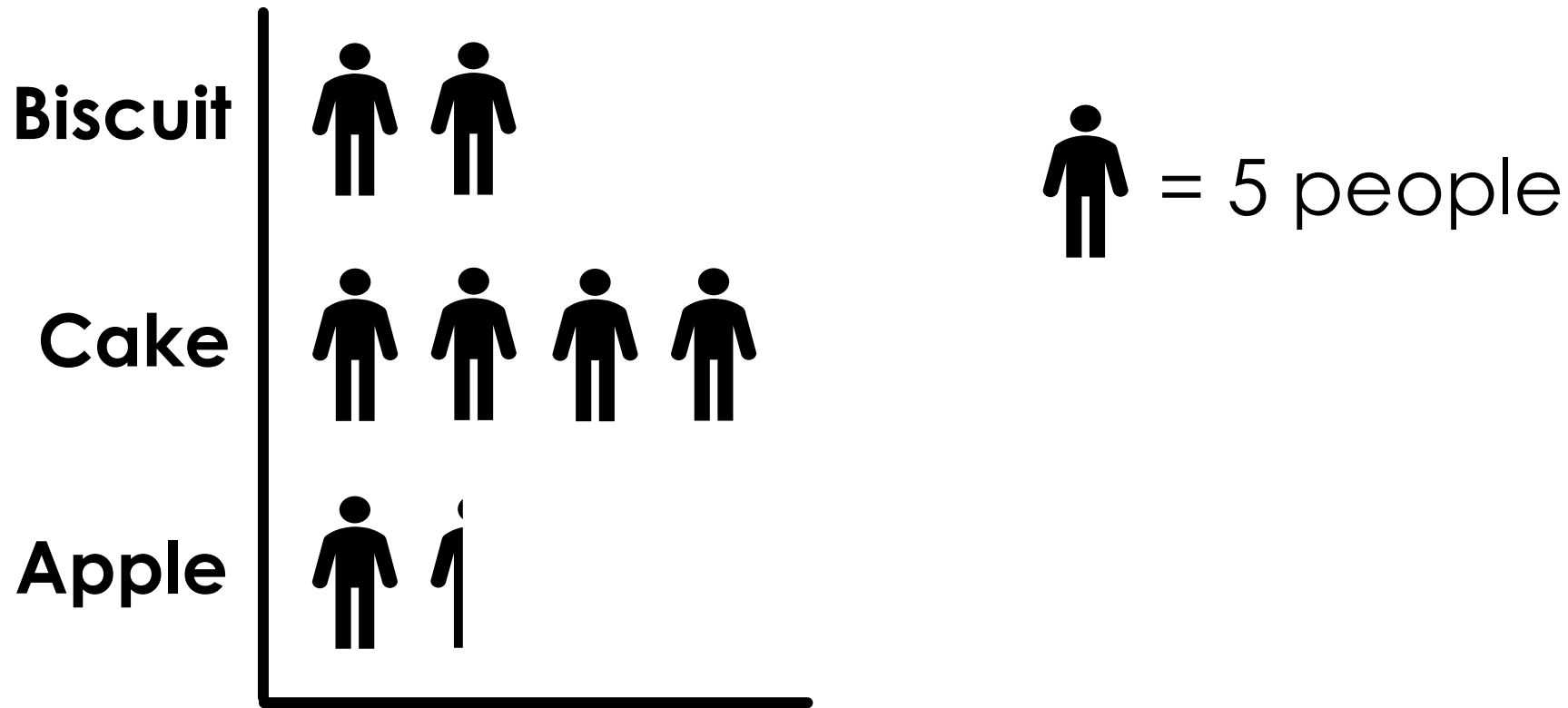
This pictogram is easy/hard to read because...

Pudding Chosen for School Lunch



What do you notice?

Pudding Chosen for School Lunch



The pudding that was chosen the most was...

... more children chose cake than...

This pictogram is easy/hard to read because...

The Morning Routine

Part 1

This is what Zara does in the morning in order (first to last):

The Morning Routine

Part 1

This is what Zara does in the morning in order (first to last):

Gets
changed



Walks the
dog



Eats
breakfast



Brushes her
teeth



The Morning Routine

Part 1

This is what Zara does in the morning in order (first to last):

Gets changed



Walks the dog



Eats breakfast



Brushes her teeth



True or false?

Zara brushes her teeth after she eats breakfast.

Zara walks the dog, then she brushes her teeth.

Zara brushes her teeth after she walks the dog.

The Morning Routine

Part 1

This is what Zara does in the morning in order (first to last):

Gets changed



Walks the dog



Eats breakfast



Brushes her teeth



True or false?

Zara brushes her teeth after she eats breakfast. ✓

Zara walks the dog, then she brushes her teeth. ✗

Zara brushes her teeth after she walks the dog. ✓

The Morning Routine

Task A Answers

*Raj has a shower, then he **gets changed**.*

*Raj **brushes his teeth** after **breakfast**.*

Spot the Mistake:

The Morning Routine

Task A Answers

*Raj has a shower, then he **gets changed**.*

*Raj **brushes his teeth** after **breakfast**.*

Spot the Mistake:

Has a shower



Gets changed



Brushes his teeth



Eats breakfast



The Morning Routine

Task A Answers

*Raj has a shower, then he **gets changed**.*

*Raj **brushes his teeth** after **breakfast**.*

Spot the Mistake:


Has a shower




Gets changed



Brushes his teeth



Eats breakfast



The Morning Routine

Task A Answers

*Raj has a shower, then he **gets changed**.*

*Raj **brushes his teeth** after **breakfast**.*

Answer 1:

Has a shower



Gets changed



Eats breakfast



Brushes his teeth



Answers: Shower, changed, breakfast, teeth

The Morning Routine

Task A Answers

*Raj has a shower, then he **gets changed**.*

*Raj **brushes his teeth** after **breakfast**.*

Answer 2:

Eats
breakfast



Brushes his
teeth



Has a
shower



Gets
changed



Answers: Shower, changed, breakfast, teeth
Breakfast, teeth, shower, changed

The Morning Routine

Task A Answers

Raj has a shower, then he gets changed.

Raj brushes his teeth after breakfast.

Answer 3:

Eats
breakfast



Has a
shower



Gets
changed



Brushes his
teeth



Answers: Shower, changed, breakfast, teeth
 Breakfast, teeth, shower, changed
 Breakfast, shower, changed, teeth

The Morning Routine

Task B Answers

Jen **had a shower**, then she **got changed**.

Jen **combed her hair** more than 40 minutes after her **shower**.

Before 7:40am, Jen had **walked the dog**.

Jen **brushed her teeth**, then she **combed her hair**.

The Morning Routine

Task B Answers

Jen **had a shower**, then she **got changed**.

Jen **combed her hair** more than 40 minutes after her **shower**.

Before 7:40am, Jen had **walked the dog**.

Jen **brushed her teeth**, then she **combed her hair**.

<p>Shower 10 mins</p>



Shower before breakfast and walking dog (more than 40 minute gap between shower and combing hair).

The Morning Routine

Task B Answers

Jen *had a shower*, then she **got changed**.

Jen **combed her hair** more than 40 minutes after her **shower**.

Before 7:40am, Jen had **walked the dog**.

Jen **brushed her teeth**, then she **combed her hair**.

Shower
10 mins



Change
3 mins



The Morning Routine

Task B Answers

Jen **had a shower**, then she **got changed**.

Jen **combed her hair** more than 40 minutes after her **shower**.

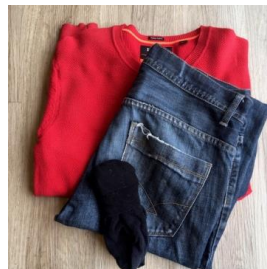
Before 7:40am, Jen had **walked the dog**.

Jen **brushed her teeth**, then she **combed her hair**.

Shower
10 mins



Change
3 mins



Dog
20 mins



The Morning Routine

Task B Answers

Jen **had a shower**, then she **got changed**.

Jen **combed her hair** more than 40 minutes after her **shower**.

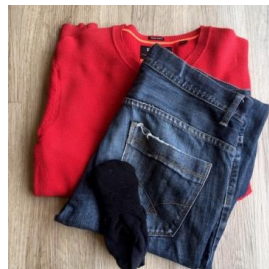
Before 7:40am, Jen had **walked the dog**.

Jen **brushed her teeth**, then she **combed her hair**.

Shower
10 mins



Change
3 mins



Dog
20 mins



Breakfast
20 mins



Jen has breakfast before combing her hair so there is at least 40 minutes between showering and combing hair.

The Morning Routine

Task B Answers

Jen **had a shower**, then she **got changed**.

Jen **combed her hair** more than 40 minutes after her **shower**.

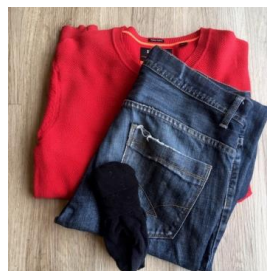
Before 7:40am, Jen had **walked the dog**.

Jen **brushed her teeth**, then she **combed her hair**.

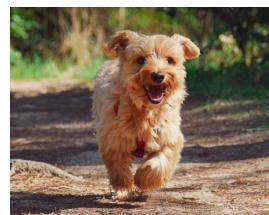
Shower
10 mins



Change
3 mins



Dog
20 mins



Breakfast
20 mins



Teeth
2 mins



Hair
1 min



The Morning Routine

Task B Answers

Jen **had a shower**, then she **got changed**.

Jen **combed her hair** more than 40 minutes after her **shower**.

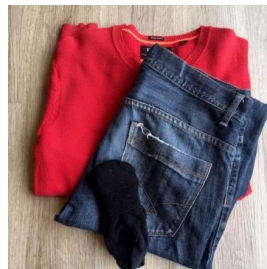
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Jen **brushed her teeth**, then she **combed her hair**.

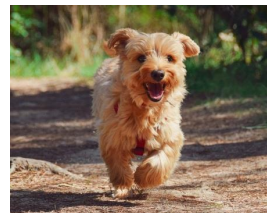
Shower
10 mins



Change
3 mins



Dog
20 mins



Breakfast
20 mins



Teeth
2 mins



Hair
1 min



The Morning Routine

Task C Answers

Dan woke up at 7:30am.

At 8:00am, Dan was **eating breakfast**.

Dan **had a bath**, then he **got changed**.

Dan **read a book** and **fed the cat** after **breakfast**.

Dan **brushed his teeth** 20 minutes after he had **fed the cat**.

The Morning Routine

Task C Answers

Dan woke up at 7:30am.

At 8:00am, Dan was **eating breakfast**.

Dan **had a bath**, then he **got changed**.

Dan **read a book** and **fed the cat** after **breakfast**.

Dan **brushed his teeth** 20 minutes after he had **fed the cat**.

Breakfast
20 mins



There are jobs before and after breakfast.

The Morning Routine

Task C Answers

Dan woke up at 7:30am.

At 8:00am, Dan was **eating breakfast**.

Dan **had a bath**, then he **got changed**.

Dan **read a book** and **fed the cat** after breakfast.

Dan **brushed his teeth** 20 minutes after he had **fed the cat**.

Breakfast
20 mins



Book
20 mins



Fed Cat
5 mins



Jobs after breakfast (not in order).

The Morning Routine

Task C Answers

Dan woke up at 7:30am.

At 8:00am, Dan was **eating breakfast**.

Dan **had a bath**, then he **got changed**.

Dan **read a book** and **fed the cat** after **breakfast**.

Dan **brushed his teeth** 20 minutes after he had **fed the cat**.

Breakfast
20 mins



Book
20 mins



Teeth
2 mins



Fed Cat
5 mins



Jobs after breakfast (not in order).

The Morning Routine

Task C Answers

Dan woke up at 7:30am.

At 8:00am, Dan was **eating breakfast**.

Dan **had a bath**, then he **got changed**.

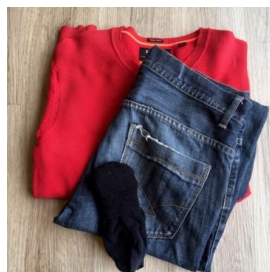
Dan **read a book** and **fed the cat** after breakfast.

Dan **brushed his teeth** 20 minutes after he had **fed the cat**.

Bath
10 mins



Change
5 mins



Breakfast
20 mins



Book
20 mins



Teeth
2 mins



Fed Cat
5 mins



Jobs before breakfast.

The Morning Routine

Task C Answers

Dan woke up at 7:30am.

At 8:00am, Dan was **eating breakfast**.

Dan **had a bath**, then he **got changed**.

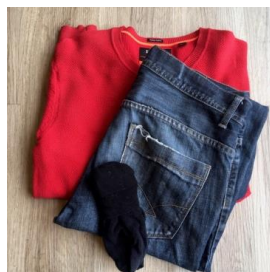
Dan **read a book** and **fed the cat** after **breakfast**.

Dan **brushed his teeth** 20 minutes after he had **fed the cat**.

Bath
10 mins



Change
5 mins



Breakfast
20 mins



Fed Cat
5 mins



Book
20 mins



Teeth
2 mins



After breakfast jobs now in order.

The Morning Routine

Task C Answers

Dan woke up at 7:30am.

At 8:00am, Dan was **eating breakfast**.

Dan **had a bath**, then he **got changed**.

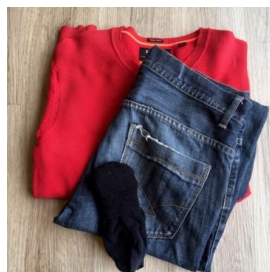
Dan **read a book** and **fed the cat** after **breakfast**.

Dan **brushed his teeth** 20 minutes after he had **fed the cat**.

Bath
10 mins



Change
5 mins



Breakfast
20 mins



Fed Cat
5 mins



Book
20 mins



Teeth
2 mins

