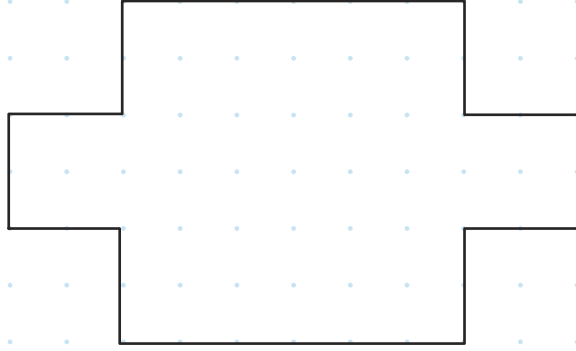


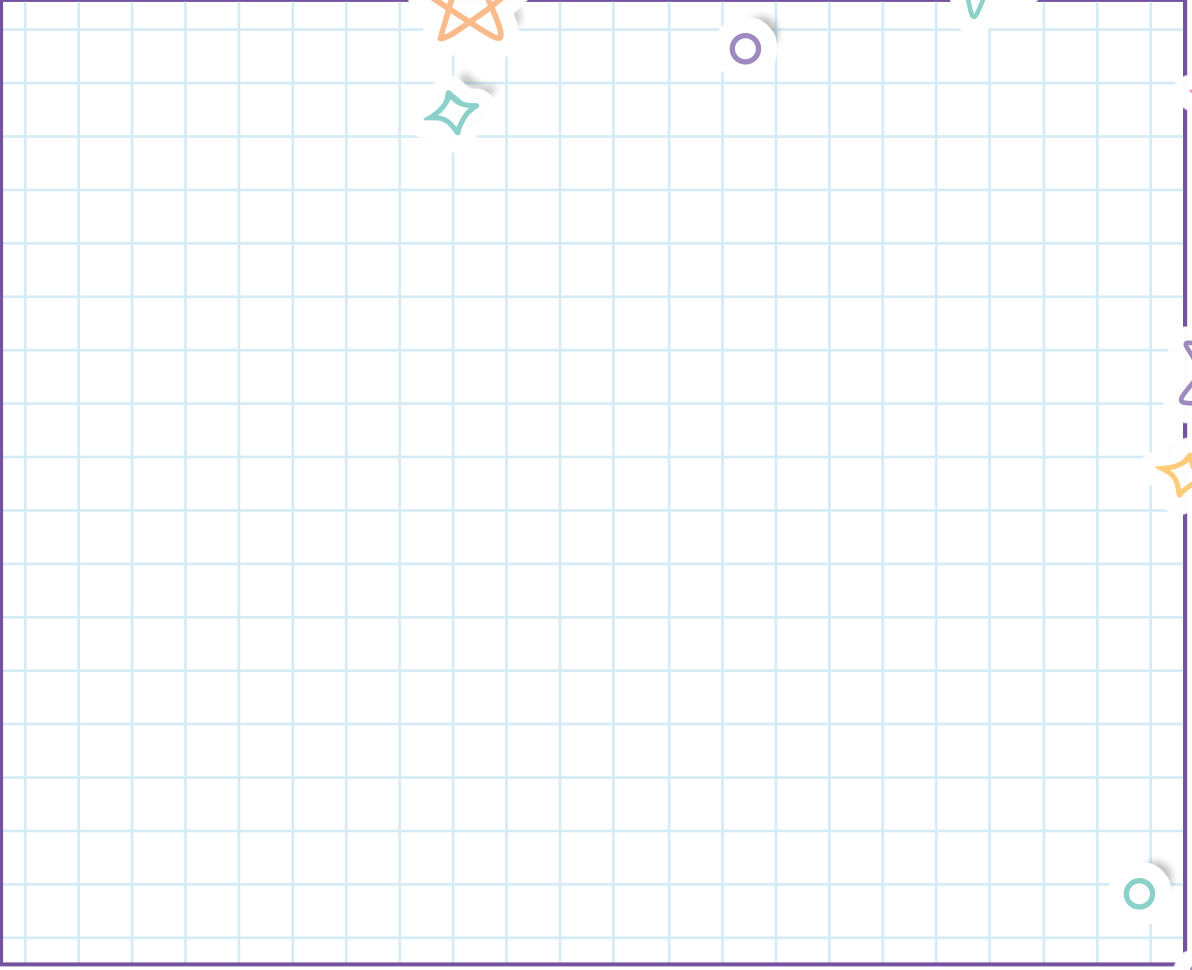
1. Draw all the lines of symmetry on this shape.



2.

Sara is going on holiday. She has to travel 480 km by car.
How many miles will she travel?

Use $8\text{ km} = 5\text{ miles}$.



3. $\frac{1}{7}$ of a number is 27.

What is the number?

4. Tick the fractions that are equal to 60%.

$$\frac{3}{5}$$

$$\frac{6}{8}$$

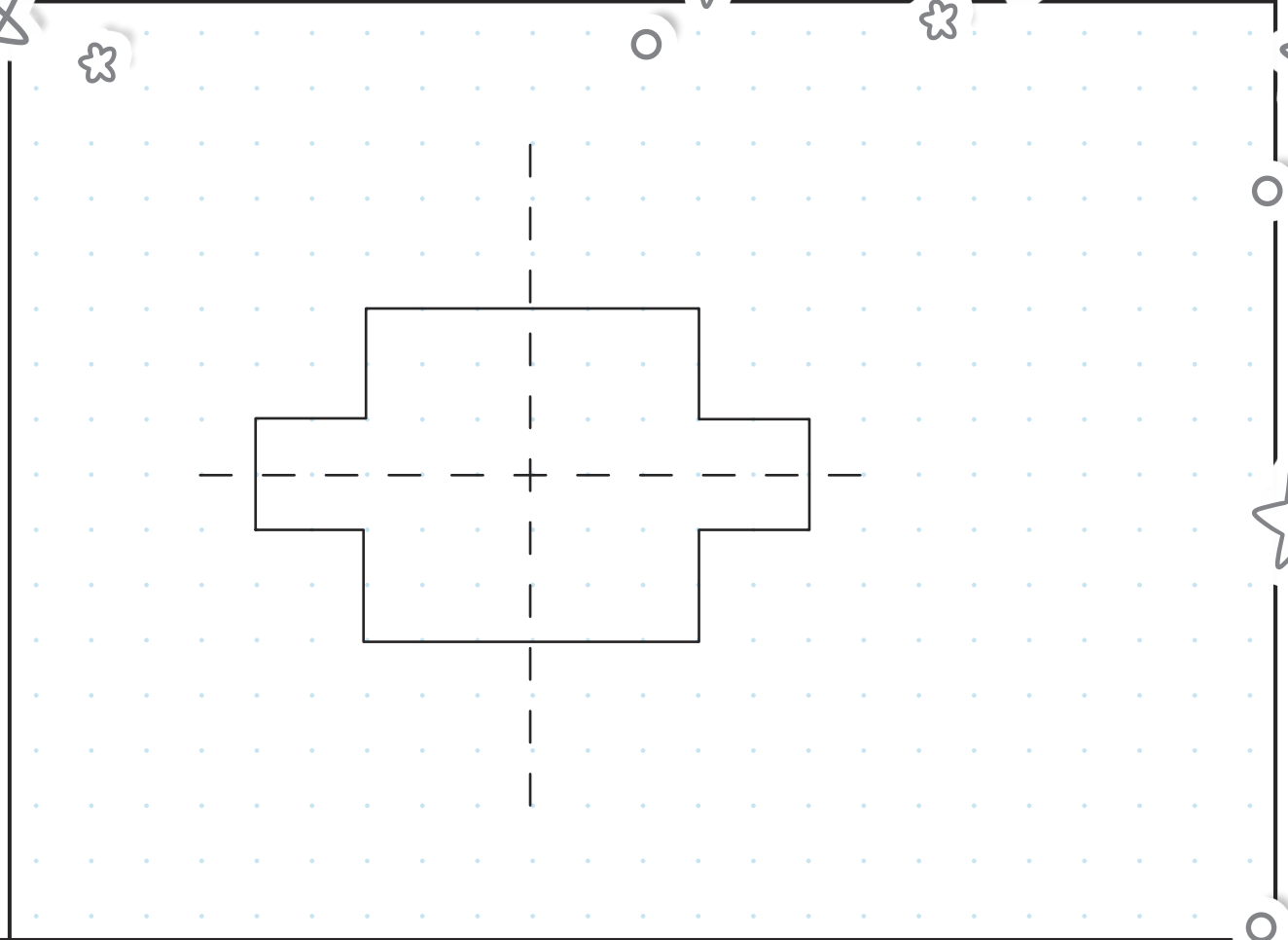
$$1\frac{1}{6}$$

$$\frac{9}{15}$$

$$\frac{6}{10}$$

1.

Draw all the lines of symmetry on this shape.



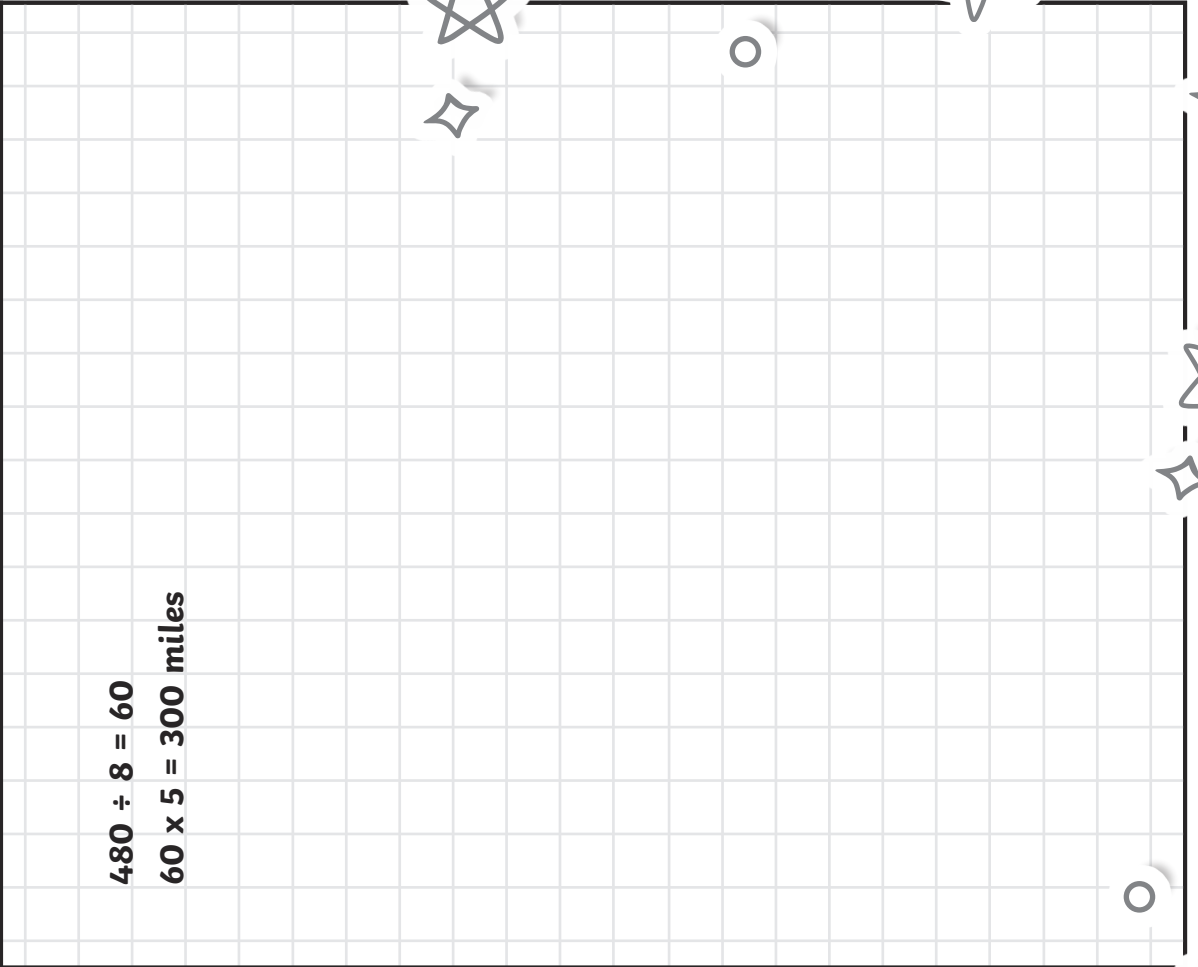
2.

Sara is going on holiday. She has to travel 480 km by car.
How many miles will she travel?

Use 8km = 5 miles.

$$480 \div 8 = 60$$

$$60 \times 5 = 300 \text{ miles}$$



3.

$\frac{1}{7}$ of a number is 27.

What is the number?

$$27 \times 7 = 189$$

4.

Tick the fractions that are equal to 60%.

$$\frac{3}{5}$$

$$\frac{6}{8}$$

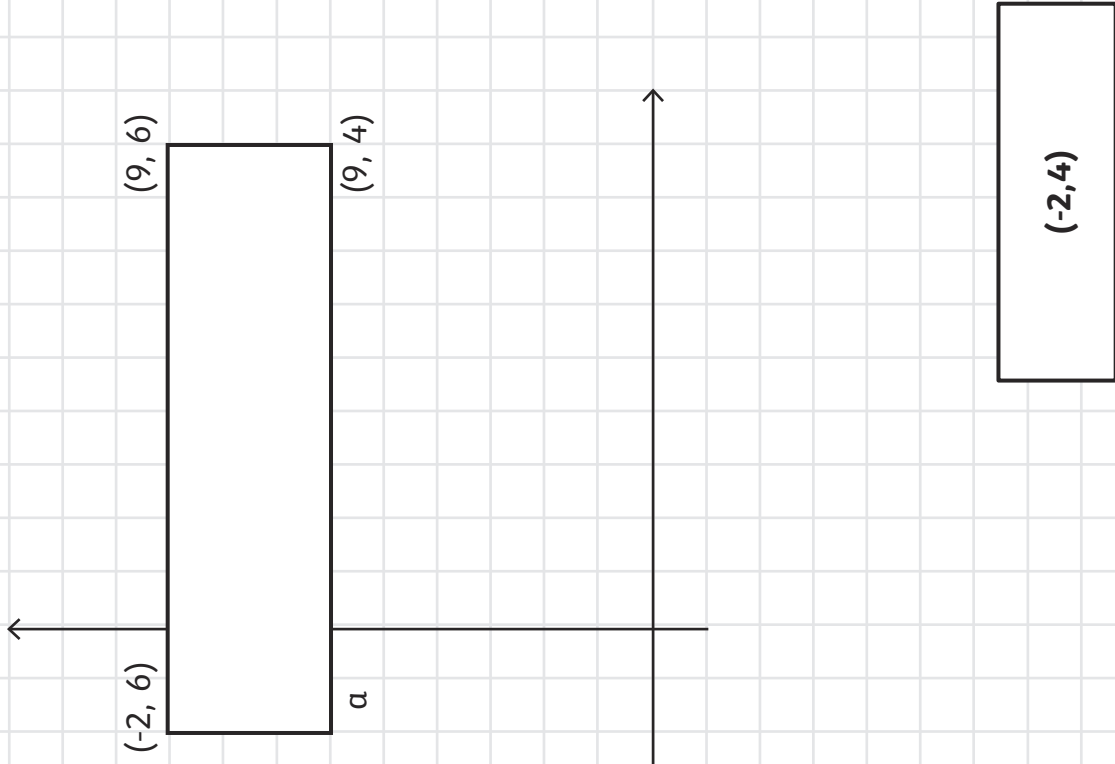
$$\frac{1}{6}$$

$$\frac{9}{15}$$

$$\frac{6}{10}$$

5.

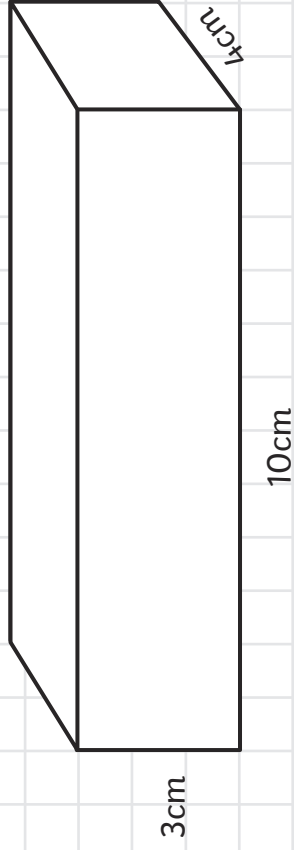
Fill in the missing coordinates for point a.



6.

Joe made a cuboid with centimetre cubes.

Radhika made a cuboid 3cm taller than Joe's. How many cubes did Radhika use for her cuboid?



$$10 \times 4 \times 6 = 240 \text{ cubes}$$

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1. Bella says, "If one angle in a triangle is 90° , the other two angles must be acute angles."

Explain why Bella is correct.

2.

Look at this equation.

$$x + 3y = 20$$

The numbers represented by x and y are different whole numbers less than 10.

What could x and y be?

$y =$

$x =$

3. Taylor packs apples into boxes ready to take to the market. 36 apples fit into one box.

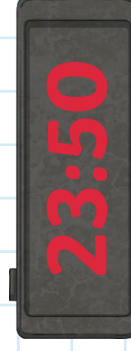
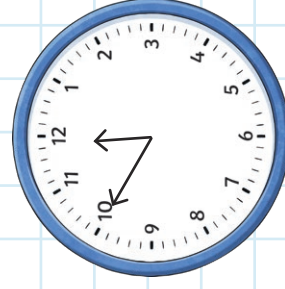
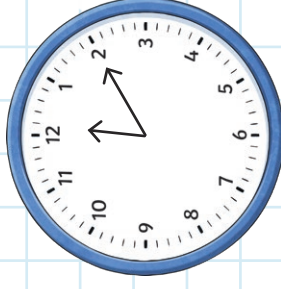
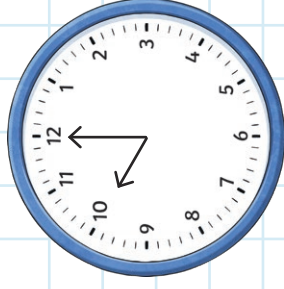
The boxes are placed into a crate.

56 boxes fit in one crate.

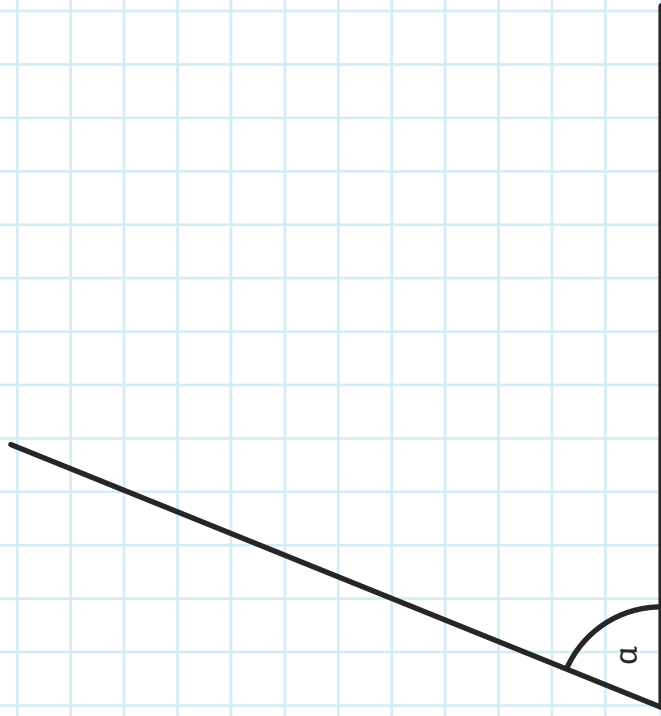
Taylor packs 3 crates for the market. How many apples does he take to the market?

4.

Circle the times that show ten minutes to midnight.



5. Use a protractor to measure angle a .



6.

Rosa has been writing down the temperatures overnight for a week. These are her results.

-3°	2°	4°	-1°	-5°	-8°	-6°
-----	----	----	-----	-----	-----	-----

Write the results in order, from highest to lowest.

highest

lowest

1.

Bella says, "If one angle in a triangle is 90° , the other two angles must be acute angles."

Explain why Bella is correct.

Bella is correct because the angles in a triangle add up to 180° . If one angle is 90° , the other two angles must share the other 90° , meaning they must both be acute angles.

2.

Look at this equation.

$$x + 3y = 20$$

The numbers represented by x and y are different whole numbers less than 10.

What could x and y be?

There is more than one possibility:

$$x = 2 \text{ and } y = 6$$

$$x = 8 \text{ and } y = 4$$

3. Taylor packs apples into boxes ready to take to the market. 36 apples fit into one box.

The boxes are placed into a crate.

56 boxes fit in one crate.

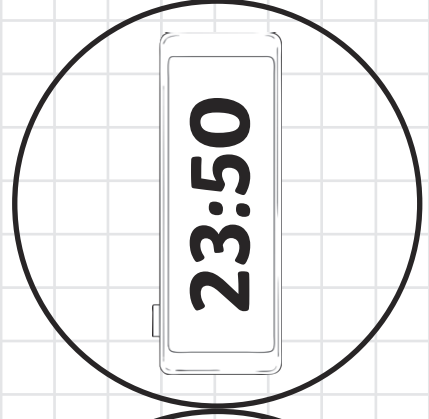
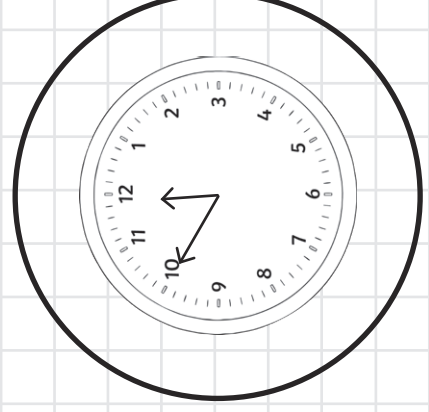
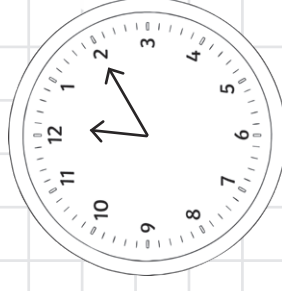
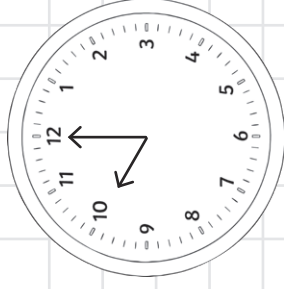
Taylor packs 3 crates for the market. How many apples does he take to the market?

$$36 \times 56 = 2016 \text{ per crate}$$

$$2016 \times 3 = 6048 \text{ apples}$$

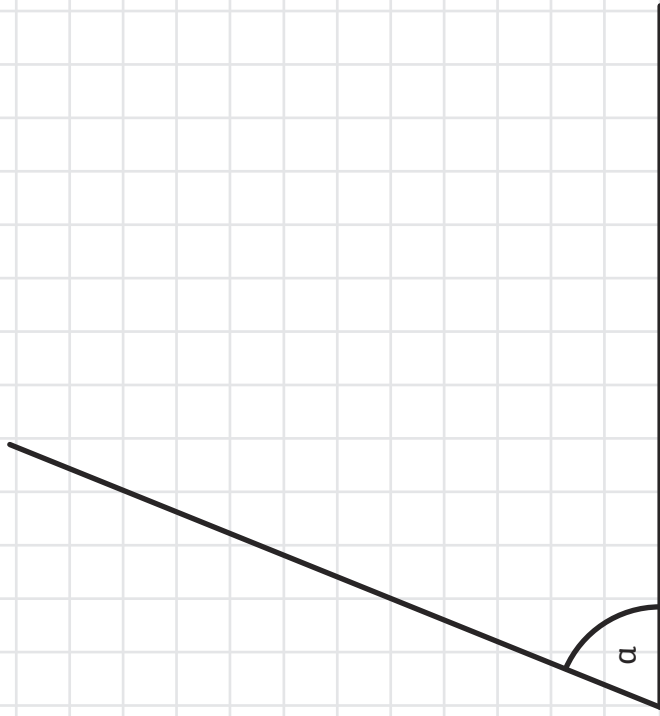
4.

Circle the times that show ten minutes to midnight.



5.

Use a protractor to measure angle a .



68°

6.

Rosa has been writing down the temperatures overnight for a week. These are her results.

-3°	2°	4°	-1°	-5°	-8°	-6°
-----	----	----	-----	-----	-----	-----

Write the results in order, from highest to lowest.

highest

4°	2°	-1°	-3°	-5°	-6°	-8°
----	----	-----	-----	-----	-----	-----

lowest

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1.

Write the missing numbers to make the additions correct.

$$500\ 000 +$$

$$+ 500 = 520\ 500$$

$$400\ 000 + 70\ 000 +$$

$$+ 60 = 470\ 960$$

$$300\ 000 +$$

$$+ 800 + 2 = 309\ 802$$

2.

Here are six number cards.

Use each card once to complete the multiplications.

x

$$= 24$$

x

$$= 27$$

x

$$= 16$$

3. Some crows have landed in the field where some sheep are grazing. The farmer says, "There are 12 animals altogether and I can see 38 legs."

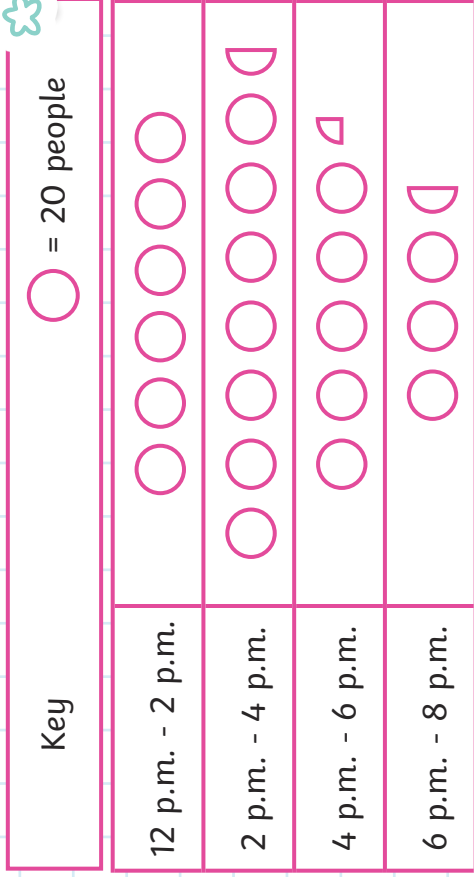
How many of each animal are there?

4. The area of this rectangle is 104cm^2 .

What is the perimeter of the rectangle?



5. This pictogram shows the number of visitors to a park on a Saturday afternoon.



How many more people visited the park between 12pm and 2pm than between 6pm and 8pm?

How many people visited the park between 12 p.m. and 4 p.m.?

Alice says, "The total number of people that visited the park is a multiple of 10." Is she right or wrong? How can you tell?

6.

Here are four fractions.

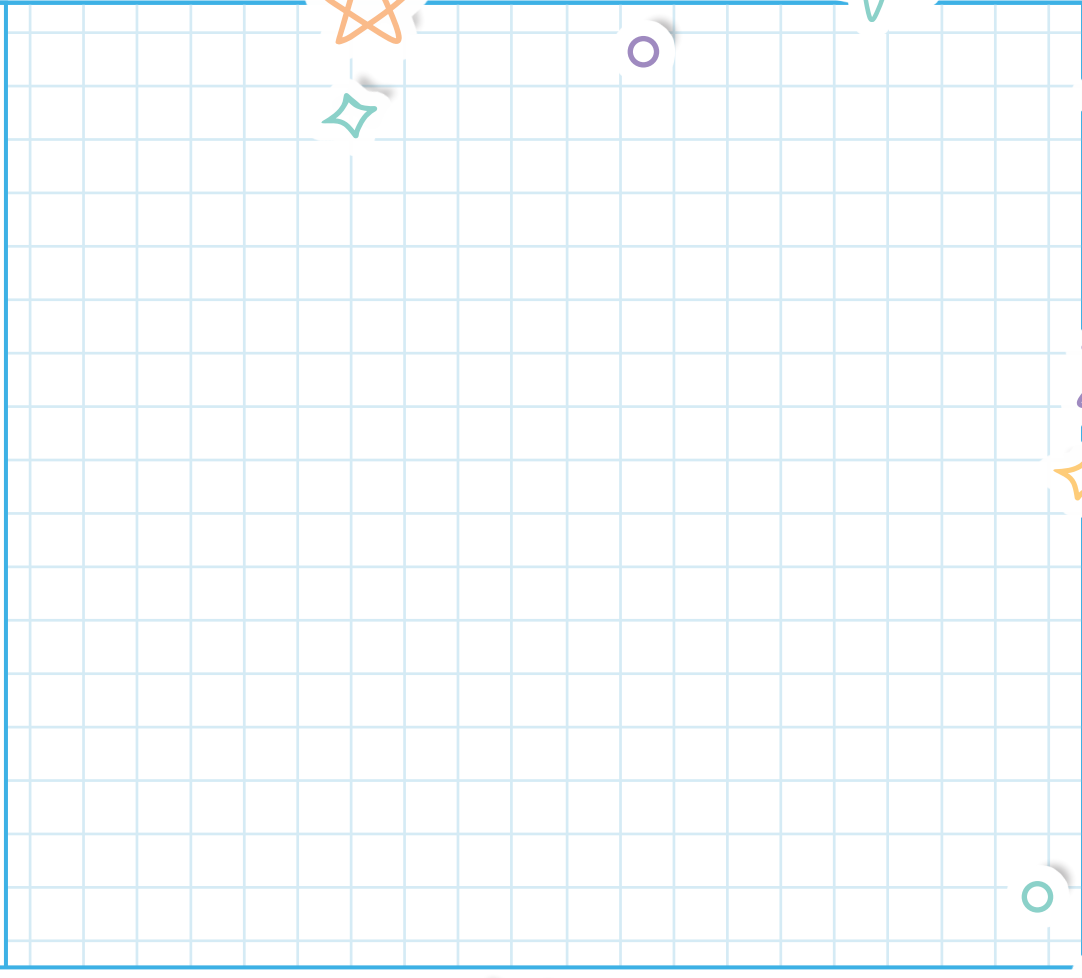
$$\frac{5}{8}$$

$$\frac{4}{7}$$

$$1\frac{1}{2}$$

$$3\frac{3}{4}$$

Order them from smallest to largest.



1.

Write the missing numbers to make the additions correct.

$$500\ 000 + \boxed{20\ 000} + 500 = 520\ 500$$

$$400\ 000 + 70\ 000 + \boxed{900} + 60 = 470\ 960$$

$$300\ 000 + \boxed{9000} + 800 + 2 = 309\ 802$$

2.

Here are six number cards.

Use each card once to complete the multiplications.

$$\boxed{6} \times \boxed{4} = 24$$

$$\boxed{9} \times \boxed{3} = 27$$

$$\boxed{8} \times \boxed{2} = 16$$

3. Some crows have landed in the field where some sheep are grazing. The farmer says, "There are 12 animals altogether and I can see 38 legs."

How many of each animal are there?

sheep	sheep legs	crows	crows legs	total
1	4	11	22	26
2	8	10	20	28
3	12	9	18	30
4	16	8	16	32
5	20	7	14	34
6	24	6	12	36
7	28	5	10	38 ✓
8	32	4	8	40
9	36	3	6	42
10	40	2	4	44
11	44	1	2	46

There are 7 sheep and 5 crows:

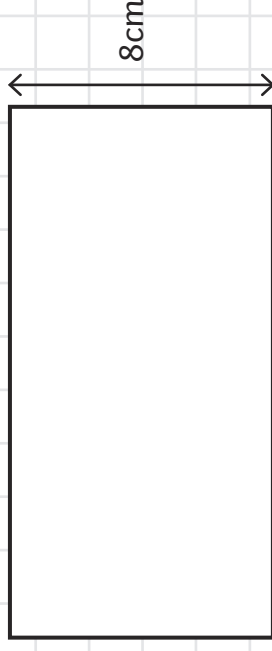
$$(7 \times 4) + (5 \times 2)$$

$$= 28 + 10$$

$$= 38$$

4. The area of this rectangle is 104cm^2 .

What is the perimeter of the rectangle?



$$104 \div 8 = 13$$

The length of the rectangle is 13cm.

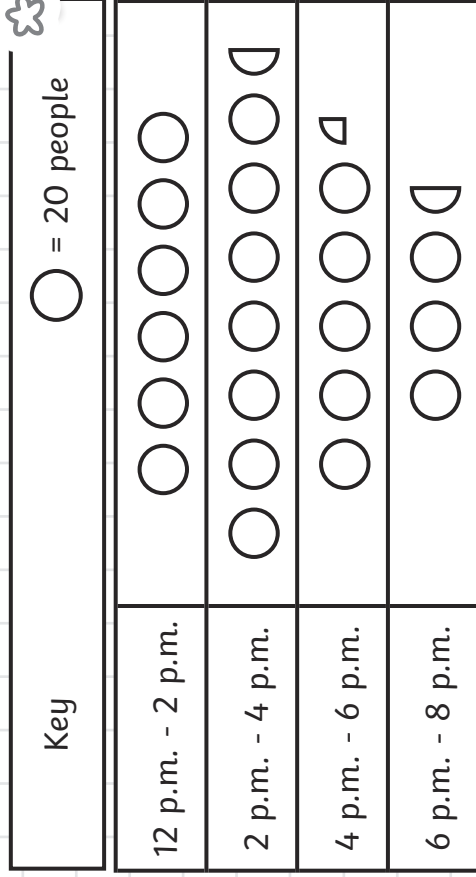
$$\text{Perimeter} = 2 \times (l + w)$$

$$= 2 \times (13 + 8)$$

$$= 2 \times 21$$

$$= 42\text{cm}$$

5. This pictogram shows the number of visitors to a park on a Saturday afternoon.



- How many more people visited the park between 12pm and 2pm than between 6pm and 8pm?
120 - 70 = 50
- How many people visited the park between 12 p.m. and 4 p.m.?
120 + 150 = 270
- Alice says, "The total number of people that visited the park is a multiple of 10." Is she right or wrong?
 How can you tell?
The total can't be a multiple of 10 because there is only one symbol which represents 5 people and all of the other symbols represent multiples of 10 people, so the total will have to be a multiple of 5 ending in 5.

6.

Here are four fractions.

$$\frac{5}{8}$$

$$\frac{4}{7}$$

$$1\frac{1}{2}$$

$$3\frac{3}{4}$$

Order them from smallest to largest.

$$\frac{5}{8} = \frac{35}{56}$$

$$1\frac{1}{2}$$

$$\frac{4}{7} = \frac{32}{56}$$

$$\frac{4}{7}$$

$$1\frac{1}{2} = \frac{28}{56}$$

$$5\frac{5}{8}$$

$$3\frac{3}{4} = \frac{42}{56}$$

$$3\frac{3}{4}$$

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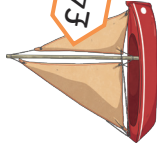
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1. Jessica goes to the toy shop. She buys a teddy, a boat and three toy soldiers. She pays with a £20 note.



£7.75



£4.88



68p each

How much change does she receive?

2.

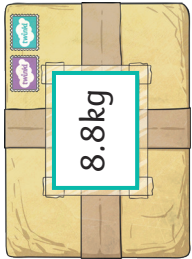
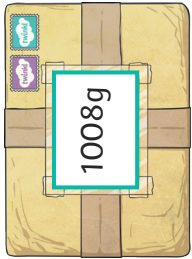
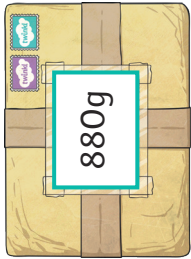
A tap has a leak. It is losing 1.2l of water per hour.

Sandy puts a bucket under the tap at 9:15 a.m. and checks the bucket at midday.

How much water is in the bucket?

3.

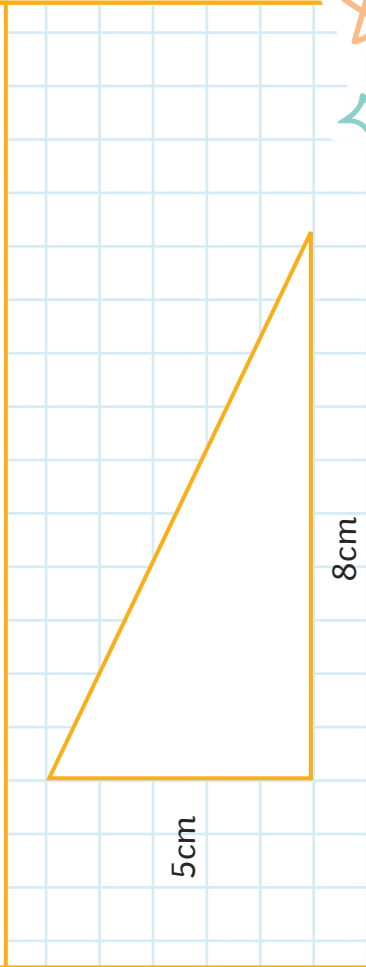
Ronnie has sold some of his clothes and has packed them up into parcels.



Order Ronnie's parcels from lightest to heaviest.

4.

This triangle has the same area as a rectangle. The dimensions of the rectangle are whole numbers. What could be the length and width of the rectangle? Give two possibilities.



Blank grid area for writing the answer to question 4.

5. Draw lines to match the fraction to its equivalent decimal.

$$\frac{2}{5}$$

$$\frac{3}{4}$$

$$\frac{12}{20}$$

$$2\frac{2}{2}$$

$$\frac{7}{8}$$

$$\frac{3}{10}$$

$$0.3$$

$$0.875$$

$$1$$

$$0.4$$

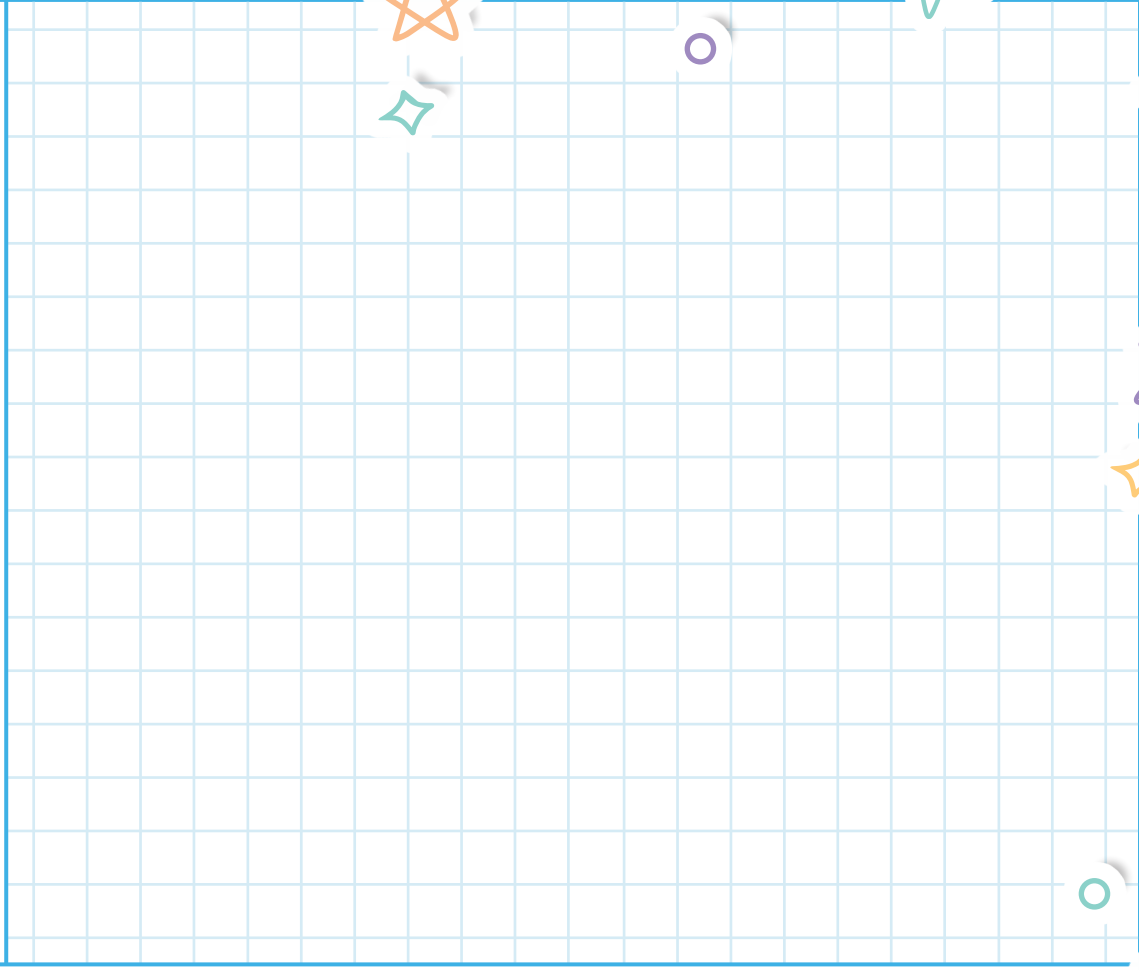
$$0.75$$

$$0.6$$

6.

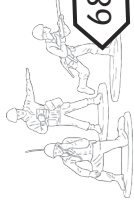
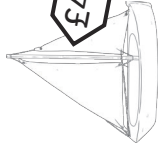
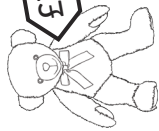
Nazra uses an 18cm length of ribbon to tie around her homemade toys.

She buys a reel with 2.5m of ribbon on. How many lengths of ribbon can she make with this reel?



1.

Jessica goes to the toy shop. She buys a teddy, a boat and three toy soldiers. She pays with a £20 note.



How much change does she receive?

$$3 \times 68\text{p} = 204\text{p} = \text{£}2.04$$

$$\text{£}2.04 + \text{£}4.88 + \text{£}7.75 = \text{£}14.67$$

$$\text{£}20 - \text{£}14.67 = \text{£}5.33$$

2.

A tap has a leak. It is losing 1.2l of water per hour.

Sandy puts a bucket under the tap at 9:15 a.m. and checks the bucket at midday.

How much water is in the bucket?

9:15 a.m. to midday is $2\frac{3}{4}$ hours.

$$1.2\text{l} \times 2 = 2.4\text{l} \text{ (2 hours)}$$

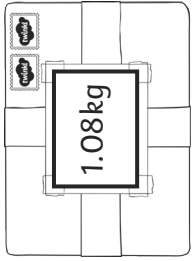
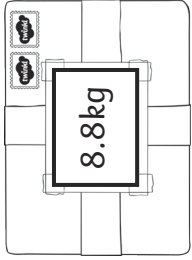
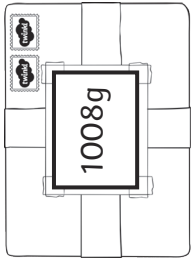
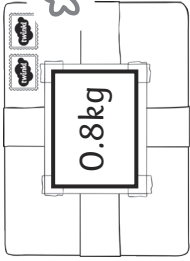
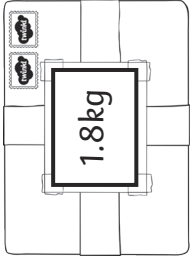
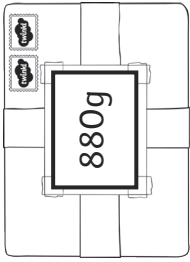
$$1.2\text{l} \div 4 = 0.3\text{l} \text{ (}\frac{1}{4}\text{ litre)}$$

$$0.3 \times 3 = 0.9\text{l} \text{ (}\frac{3}{4}\text{ litre)}$$

$$2.4 + 0.9 = 3.3\text{l}$$

3.

Ronnie has sold some of his clothes and has packed them up into parcels.



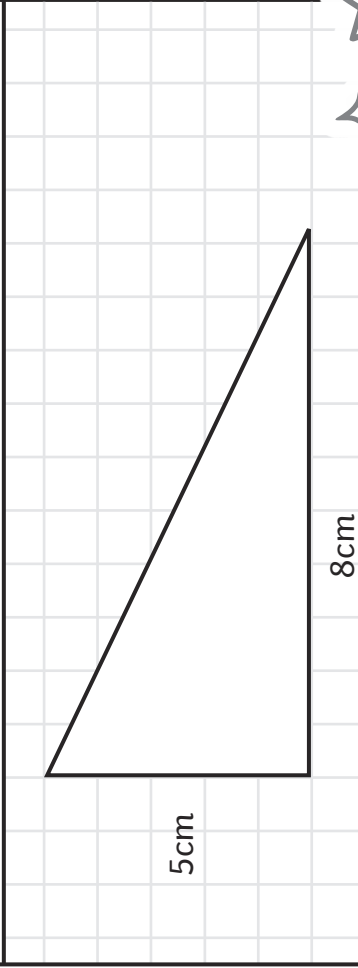
Order Ronnie's parcels from lightest to heaviest.

- 0.8kg
- 880g
- 1008g
- 1.08kg
- 1.8kg
- 8.8kg

4.

This triangle has the same area as a rectangle.

The dimensions of the rectangle are whole numbers. What could be the length and width of the rectangle? Give two possibilities.

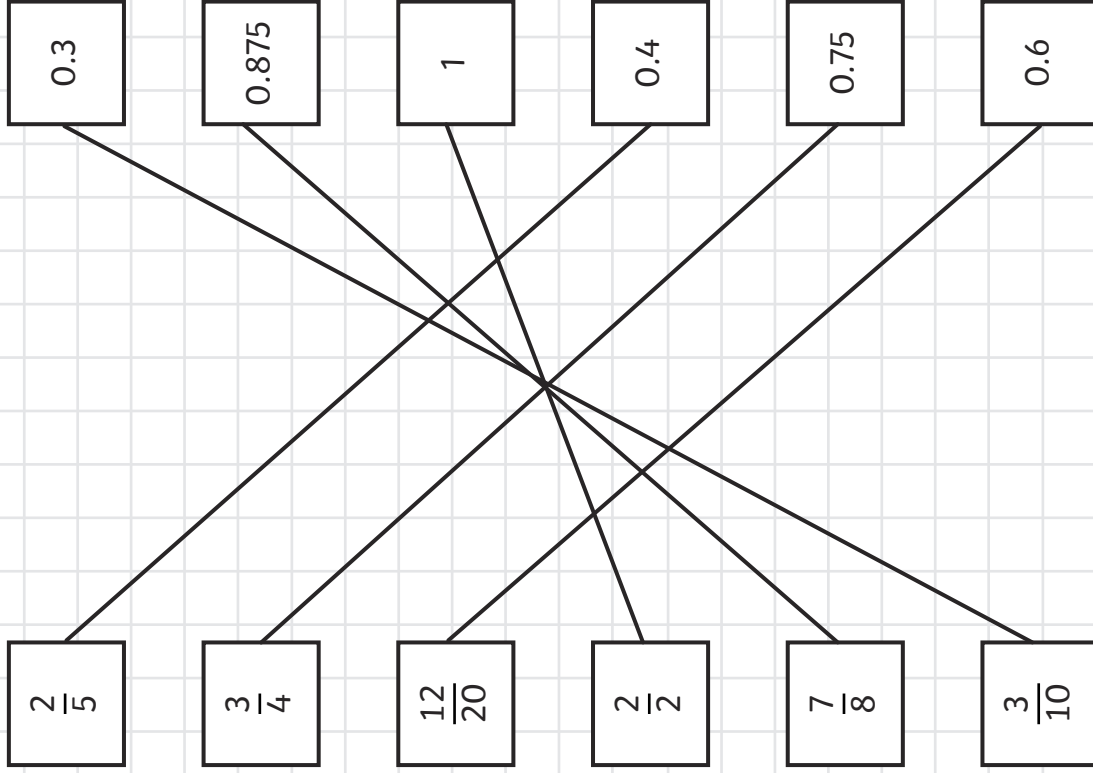


$$\begin{aligned} \text{area of the triangle} &= \frac{1}{2} \times \text{length} \times \text{height} \\ &= \frac{1}{2} \times 8 \times 5 \\ &= 20\text{cm}^2 \end{aligned}$$

The rectangle could have these dimensions:

length	width
2	10
5	4
1	20
10	2
4	5
20	1

5. Draw lines to match the fraction to its equivalent decimal.



6.

Nazra uses an 18cm length of ribbon to tie around her homemade toys.

She buys a reel with 2.5m of ribbon on. How many lengths of ribbon can she make with this reel?

$$2.5\text{m} = 250\text{cm}$$

$$250 \div 18 = 13\text{r}16$$

Nazra can make 13 lengths of ribbon.

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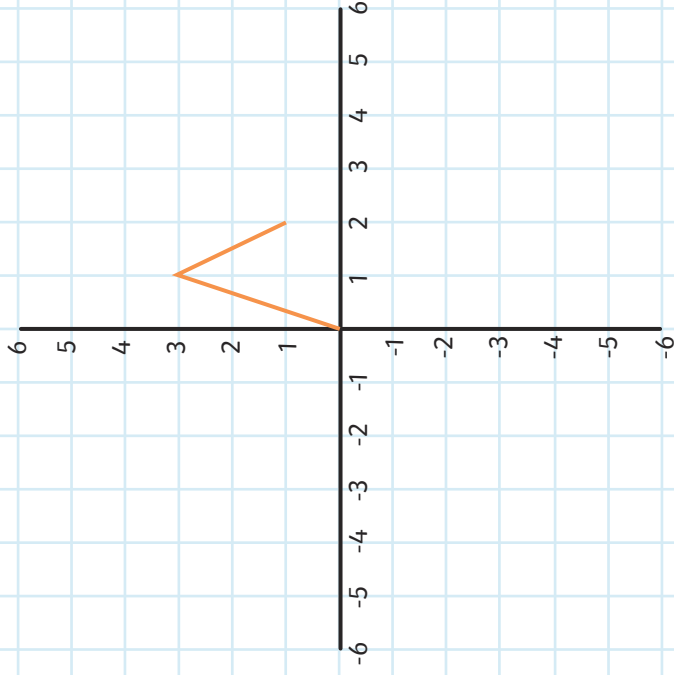


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1. Harry draws a quadrilateral. He plots one more point at $(1, -1)$. Plot his final point and then join the sides to make his quadrilateral.

Harry then translates his shape 2 squares down and 4 squares left. Tick the coordinates of his new shape.



$(-2, -4)$

$(-3, -3)$

$(-2, -1)$

$(-4, -2)$

$(1, -3)$

$(-3, 1)$

2. Here are some numbers.

2 3 4 5 6 7 8 9

Place the numbers into the categories that they fit. You can place one number in more than one category.

Prime Number

Square Number

Factor of 20

Which two numbers can't be placed in any category?

and

_____ and _____

3. The staff at the sweet shop are making packets of mixed sweets. They have a large box of 350 sweets to use. 28 sweets go into each packet. How many full packets can they make?

4. Tick the numbers that round to 53.6

53.57	<input type="checkbox"/>
-------	--------------------------

53.54	<input type="checkbox"/>
-------	--------------------------

53.66	<input type="checkbox"/>
-------	--------------------------

53.55	<input type="checkbox"/>
-------	--------------------------

53.06	<input type="checkbox"/>
-------	--------------------------

53.62	<input type="checkbox"/>
-------	--------------------------

5.

Cora is thinking of a 3D shape. She says, "This shape has 4 triangular faces and 1 square face."

What shape is she thinking of?

6.

Use the symbols below to fill in the gaps to make the statements correct.

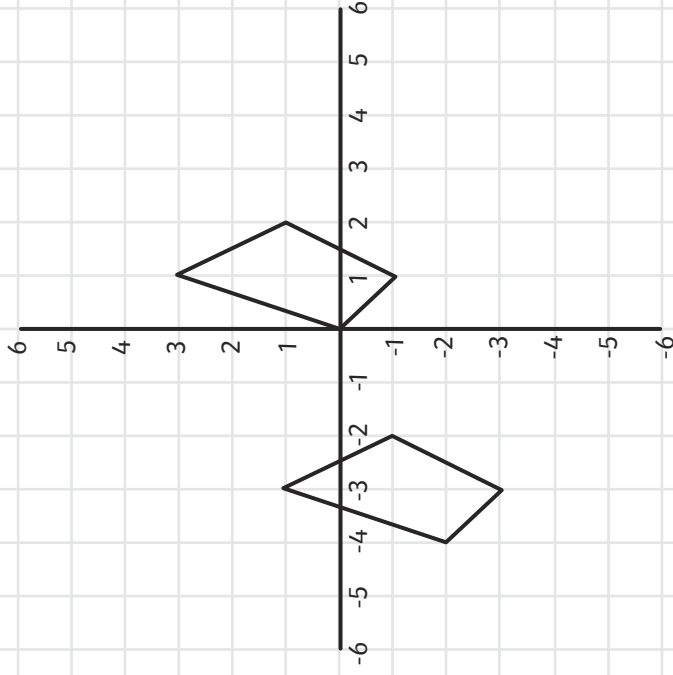
> < =

$\frac{4}{10}$		0.4
$\frac{42}{100}$		0.042
$\frac{9}{100}$		0.9
$\frac{52}{1000}$		0.52

1.

Harry draws a quadrilateral. He plots one more point at $(1, -1)$. Plot his final point and then join the sides to make his quadrilateral.

Harry then translates his shape 2 squares down and 4 squares left. Tick the coordinates of his new shape.



$(-2, -4)$

$(-3, -3)$

$(-2, -1)$

$(-4, -2)$

$(1, -3)$

$(-3, 1)$

2.

Here are some numbers.

2 3 4 5 6 7 8 9

Place the numbers into the categories that they fit. You can place one number in more than one category.

Prime Number

2 3 5 7

Square Number

4 9

Factor of 20

2 4 5

Which two numbers can't be placed in any category?

6 and 8

3.

The staff at the sweet shop are making packets of mixed sweets. They have a large box of 350 sweets to use. 28 sweets go into each packet. How many full packets can they make?

$$350 \div 28 = 12r14$$

They can make 12 full packets of sweets.

12

4.

Tick the numbers that round to 53.6

53.57



53.54

53.66

53.55



53.06

53.62



5.

Cora is thinking of a 3D shape. She says, "This shape has 4 triangular faces and 1 square face."

What shape is she thinking of?

square-based pyramid

6.

Use the symbols below to fill in the gaps to make the statements correct.

> < =

$\frac{4}{10}$	=	0.4
$\frac{42}{100}$	>	0.042
$\frac{9}{100}$	<	0.9
$\frac{52}{1000}$	<	0.52

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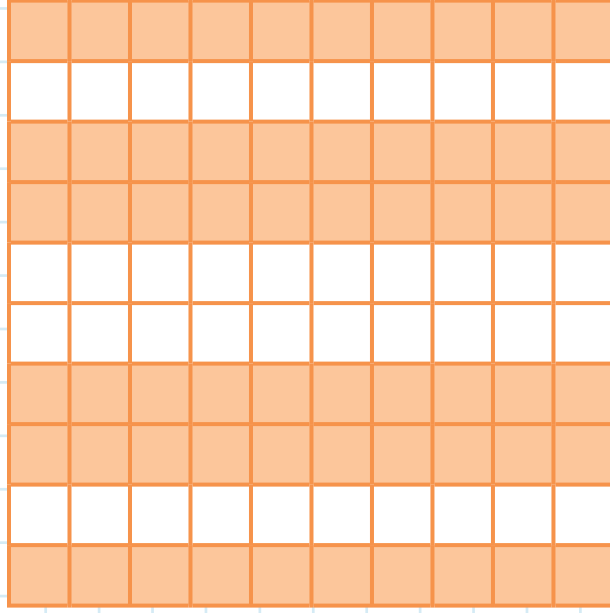


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1. Part of this grid is shaded.

Tick all the fractions that the shaded part represents.



$\frac{60}{100}$

$\frac{3}{5}$

$\frac{1}{2}$

$\frac{6}{100}$

$\frac{6}{10}$

$\frac{1}{6}$

2.

Write the missing digits into the equation to make it correct.

$$\begin{array}{|c|c|} \hline & 6 \\ \hline \end{array} + \begin{array}{|c|c|c|} \hline & 1 & \\ \hline \end{array} = 600$$

3. The frequency table shows how many children had a school dinner in one week.

Complete the table.

Day	Class 1	Class 2	Total
Monday	16	12	28
Tuesday	17		32
Wednesday		13	31
Thursday	13		27
Friday	24	21	

How many more lunches were made for class 1 than for class 2 that week?

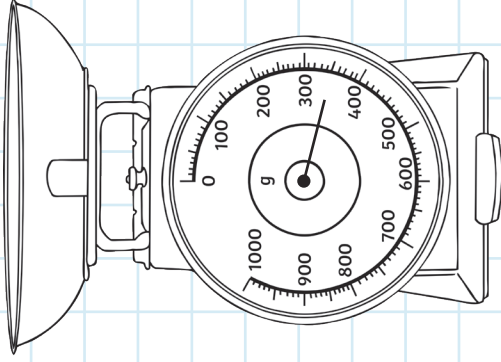
4.

A water pipe leaks water at a rate of 15ml every 4 seconds.

How many litres of water will have leaked from the pipe in an hour?

Blank grid area for solving question 4.

5. Selma is making bread. She puts her flour on the scales. She needs 1kg of flour to make her bread. How much more flour does she need? Give your answer in kilograms.



kg

6.

Rex fixes dishwashers. He charges £22 per hour plus a call-out charge of £30.

The letter **h** stands for the number of hours Rex works. Which expression shows Rex's charges? Tick one.

$h + 30 \times 22$

$h \times 30 + 22$

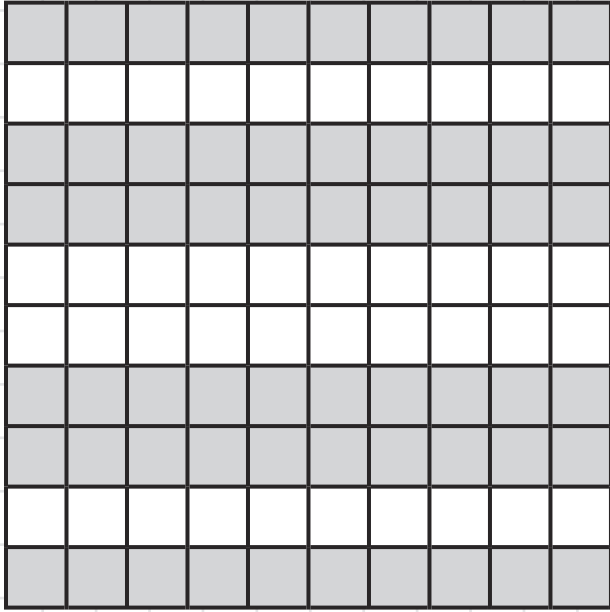
$h + 22 + 30$

$h \times 22 + 30$

1.

Part of this grid is shaded.

Tick all the fractions that the shaded part represents.



$\frac{60}{100}$

$\frac{3}{5}$

$\frac{1}{2}$

$\frac{6}{100}$

$\frac{6}{10}$

$\frac{1}{6}$

2.

Write the missing digits into the equation to make it correct.

$$\begin{array}{|c|c|} \hline 8 & 6 \\ \hline \end{array} + \begin{array}{|c|c|} \hline 5 & 1 \\ \hline \end{array} = \begin{array}{|c|c|} \hline 4 & 4 \\ \hline \end{array} = 600$$

3. The frequency table shows how many children had a school dinner in one week.

Complete the table.

Day	Class 1	Class 2	Total
Monday	16	12	28
Tuesday	17	15	32
Wednesday	18	13	31
Thursday	13	14	27
Friday	24	21	45
			163

How many more lunches were made for class 1 than for class 2 that week?

Class 1:

$$16 + 17 + 18 + 13 + 24 = 88$$

Class 2:

$$12 + 15 + 13 + 14 + 21 = 75$$

$$88 - 75 = 13$$

4.

A water pipe leaks water at a rate of 15ml every 4 seconds.

How many litres of water will have leaked from the pipe in an hour?

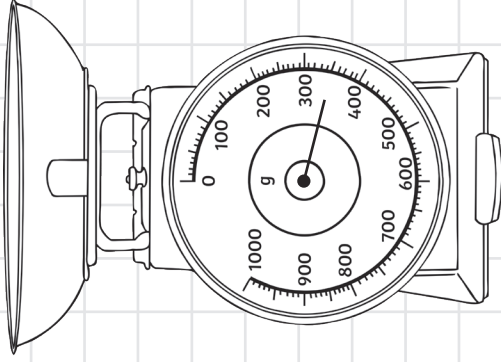
$$15 \times 15 = 225\text{ml per minute}$$

$$225 \times 60 = 13\,500\text{ml per hour}$$

$$13\,500\text{ml} = 13.5\text{l}$$

5.

Selma is making bread. She puts her flour on the scales. She needs 1kg of flour to make her bread. How much more flour does she need? Give your answer in kilograms.



$$1000\text{g} - 350\text{g} = 650\text{g}$$

$$650\text{g} = 0.65\text{kg}$$

0.65 kg

6.

Rex fixes dishwashers. He charges £22 per hour plus a call-out charge of £30.

The letter **h** stands for the number of hours Rex works.

Which expression shows Rex's charges? Tick one.

$h + 30 \times 22$

$h \times 30 + 22$

$h + 22 + 30$

$h \times 22 + 30$

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1. Write numbers in the boxes to balance the calculations.

$$65 \times \boxed{} = 10 \times 6500$$

$$10 \times 340 = 34 \times \boxed{}$$

$$1000 \times \boxed{} = 10 \times 4.9$$

2.

A skateboard shop is holding a 30% off sale. The original price of a skateboard is £125.50.

What is the new price of the skateboard?

3. Here is a table showing a number and the number that is 1000 more.

Complete the grid.

Number	1000 More
2256	3256
3071	
1 499 756	
4.72	90 065

4.

Some children choose their favourite outing.

$\frac{2}{5}$ choose the beach.

35% choose the park.

The rest choose the zoo.

What fraction of children choose the zoo?

5.

Indie thinks of a number.

She says, "I multiplied my number by 3 and added 26 to get 77."

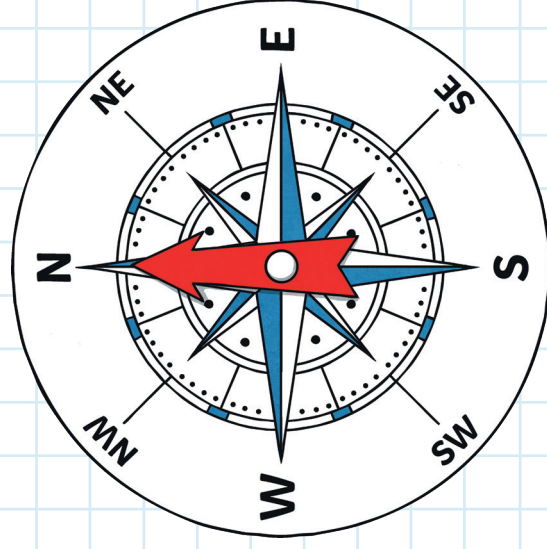
What number did she start with?

6.

Here is a compass.

Rohit stands facing north-west. He turns anticlockwise to face south.

How many degrees did he turn through?



°

1. Write numbers in the boxes to balance the calculations.

$$65 \times \boxed{1000} = 10 \times 6500$$

$$10 \times 340 = 34 \times \boxed{100}$$

$$1000 \times \boxed{0.049} = 10 \times 4.9$$

2.

A skateboard shop is holding a 30% off sale. The original price of a skateboard is £125.50.

What is the new price of the skateboard?

$$\begin{aligned} 10\% \text{ of } \pounds 125.50 &= \pounds 12.55 \\ 30\% &= \pounds 12.55 \times 3 = \pounds 37.65 \\ \pounds 125.50 - \pounds 37.65 &= \pounds 87.85 \end{aligned}$$

3.

Here is a table showing a number and the number that is 1000 more.

Complete the grid.

Number	1000 More
2256	3256
3071	4071
1 499 756	1 500 756
89 065	90 065
4.72	1004.72

4.

Some children choose their favourite outing.

$\frac{2}{5}$ choose the beach.

35% choose the park.

The rest choose the zoo.

What fraction of children choose the zoo?

Beach:

$$\frac{2}{5} = 2050 = 40100$$

Park:

$$35\% = 35100$$

$$40100 + 35100 = 75100$$

75100 choose the beach or the park so the fraction of children that choose the zoo is 25100 or 14.

5.

Indie thinks of a number.

She says, "I multiplied my number by 3 and added 26 to get 77."

What number did she start with?

$$77 - 26 = 51$$

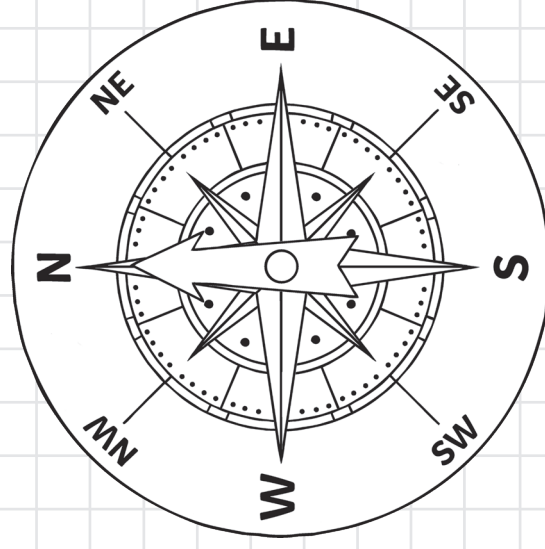
$$51 \div 3 = 17$$

6.

Here is a compass.

Rohit stands facing north-west. He turns anticlockwise to face south.

How many degrees did he turn through?



135 °

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1. Jan goes for a skip. She records her progress on a line graph afterwards.




1. Approximately how long did it take Jan to skip 1km?
2. What do you think was happening between 10 and 12 minutes?
3. Jan says, "It took me approximately 5 minutes to skip 500m so it should take me no more than 50 minutes to skip 5000m." Do you think Jan is correct? Explain your reasons.

2.

Each cat stands for a value in this grid.
Complete the grid with the totals for each row and column and then find out what the other cats are worth.

			= 61
			=
			=
=	= 77	=	=

	= 23
---	------

	=
---	---

	=
---	---

3. Complete the grid by rounding the numbers to the nearest ten, hundred and thousand.

	nearest 10	nearest 100	nearest 1000
1542			
23 691			
249 906			
405 151			
999 954			

4. Use a ruler to draw the reflection of the shape.

mirror line

5.

Jack is investigating prime numbers. He says, "The number 7 is a prime number so every number ending in 7 is a prime number."

Is he correct? Explain your answer.

6.

Paulo is making a cake. The recipe is for 12 people.
He needs:

- 270g margarine
- 270g caster sugar
- 6 eggs
- 270g flour
- 360g icing sugar
- 3 tbs water
- sprinkles

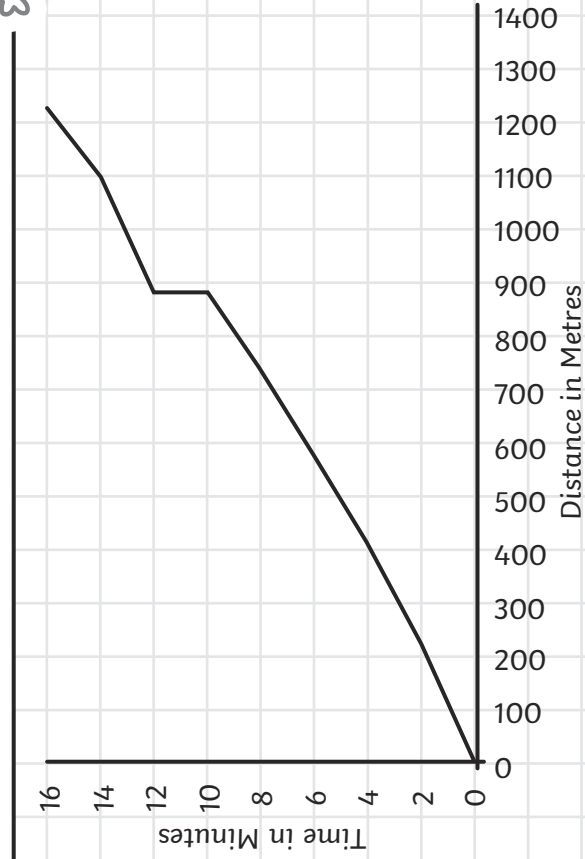
He needs to make enough cake to feed 20 people.

How much of each ingredient will he need?

Cake Recipe

- ____ margarine
- ____ caster sugar
- ____ eggs
- ____ flour
- ____ icing sugar
- ____ tbs water
- sprinkles

1. Jan goes for a skip. She records her progress on a line graph afterwards.



1. Approximately how long did it take Jan to skip 1km?

13 minutes

2. What do you think was happening between 10 and 12 minutes?

Any answer which suggests she stopped skipping, for example:

Jan stopped for a rest/for a drink



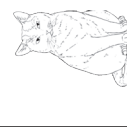


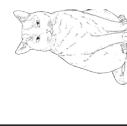



She might have fallen over because she stopped skipping


3. Jan says, "It took me approximately 5 minutes to skip 500m so it should take me no more than 50 minutes to skip 5000m." Do you think Jan is correct? Explain your reasons.
Jan is incorrect. She took 5 minutes for the first 500 metres of her skipping, but the graph shows that the next 500 metres took her 8 minutes. Therefore, it is reasonable to assume that she will take longer than 50 minutes to skip 5000 metres.

2.


Each cat stands for a value in this grid.

Complete the grid with the totals for each row and column and then find out what the other cats are worth.

			= 61
			= 53
			= 85
= 69	= 77	= 53	

	= 23
---	------

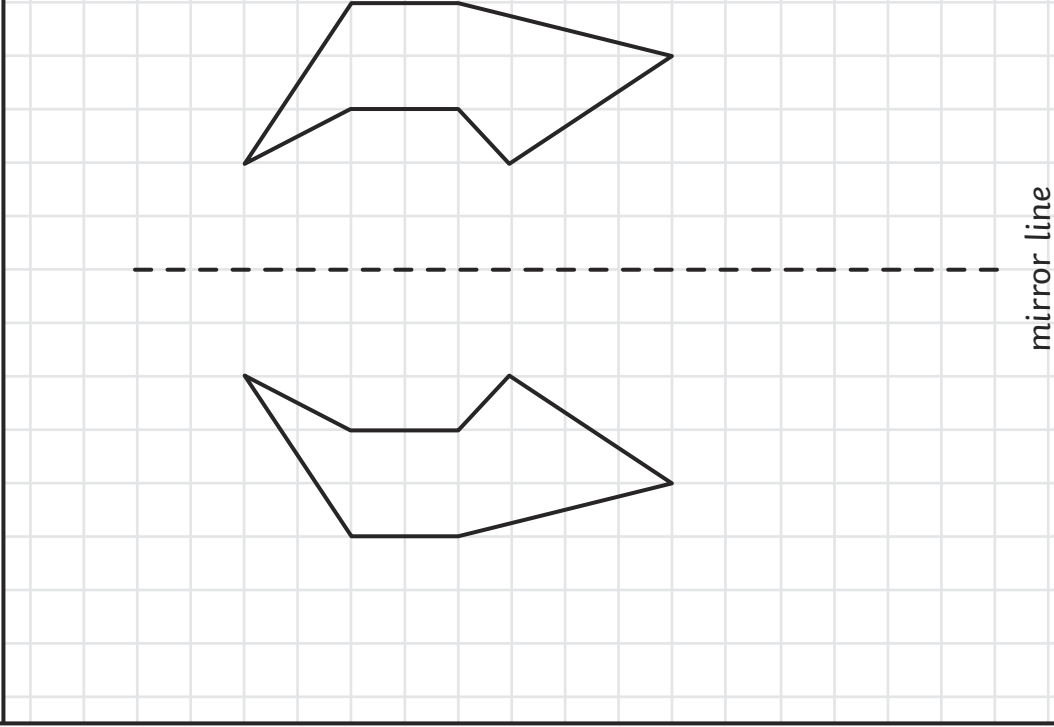
	= 15
---	------

	= 31
---	------

3. Complete the grid by rounding the numbers to the nearest ten, hundred and thousand.

	nearest 10	nearest 100	nearest 1000
1542	1540	1500	2000
23 691	23 690	23 700	24 000
249 906	249 910	249 900	250 000
405 151	405 150	405 200	405 000
999 954	999 950	1 000 000	1 000 000

4. Use a ruler to draw the reflection of the shape.



5.

Jack is investigating prime numbers. He says, "The number 7 is a prime number so every number ending in 7 is a prime number."

Is he correct? Explain your answer.

Any answer giving an example to disprove Jack's statement is acceptable, such as: Jack is incorrect. 7 is a prime number and so is 17, but the number 27 is not a prime number.

6.

Paulo is making a cake. The recipe is for 12 people. He needs:

- 270g margarine
- 360g icing sugar
- 270g caster sugar
- 3 tbs water
- 6 eggs
- sprinkles
- 270g flour

He needs to make enough cake to feed 20 people.

How much of each ingredient will he need?

Work out the recipe for 4 people first by dividing the original measurements by 3:

- $270 \div 3 = 90\text{g margarine}$
- $270 \div 3 = 90\text{g caster sugar}$
- $6 \div 3 = 2\text{ eggs}$
- $270 \div 3 = 90\text{g flour}$
- $360 \div 3 = 120\text{g icing sugar}$
- $3 \div 3 = 1\text{ tbsp water}$

Now multiply each ingredient by 5 to make 20 portions:

- $90 \times 5 = 450\text{g margarine}$
- $90 \times 5 = 450\text{g caster sugar}$
- $2 \times 5 = 10\text{ eggs}$
- $90 \times 5 = 450\text{g flour}$
- $120 \times 5 = 600\text{g icing sugar}$
- $1 \times 5 = 5\text{ tbsp water}$

Cake Recipe

- **450g** margarine
- **450g** caster sugar
- **10** eggs
- **450g** flour
- **600g** icing sugar
- **5** tbs water
- sprinkles

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1.

Jonah paints house exteriors.

He uses this formula to work out how much to charge people:

Total cost = £47.50 per hour + £350 expenses

How much will it cost for him to complete a job lasting 8 hours?

2.

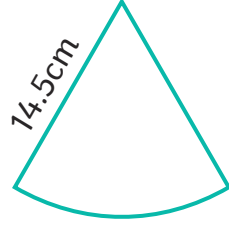
Write the missing number to make the division correct:

 $36\ 000 \div$ $= 1.2$

3. A pizza is cut into slices like this:



Here is one slice:



What is the diameter of the whole pizza?

4.

Fill in the missing numbers in the number sequences.

40, 80, 120,

58, 50, 42,

70, 50, 30,

5. A carnival is held over three days. In total, 341 056 people attended.

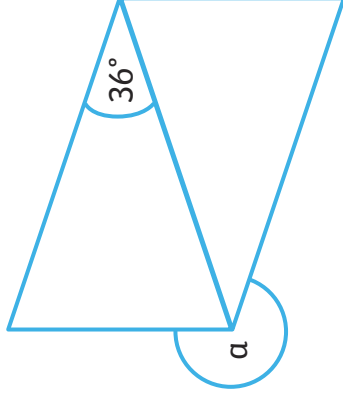
On the first day, 82 154 people attended.

On the second day, 128 932 people attended.

How many people attended on the third day?

6.

Aisha puts two identical isosceles triangles together like this:



Calculate angle a .

1.

Jonah paints house exteriors.

He uses this formula to work out how much to charge people:

$$\text{Total cost} = \text{£47.50 per hour} + \text{£350 expenses}$$

How much will it cost for him to complete a job lasting 8 hours?

$$\text{£47.50} \times 8 = \text{£380}$$

$$\text{£380} + \text{£350} = \text{£730}$$

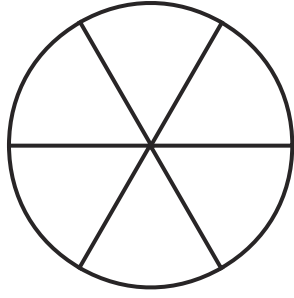
2.

Write the missing number to make the division correct:

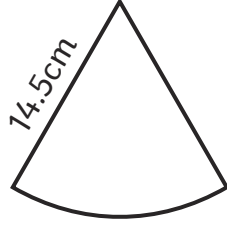
$$36\,000 \div \boxed{30\,000} = 1.2$$

3.

A pizza is cut into slices like this:



Here is one slice:



What is the diameter of the whole pizza?

$$14.5 \times 2 = 29\text{cm}$$

29cm

4.

Fill in the missing numbers in the number sequences.

40, 80, 120,

160

200

240

74

66

58, 50, 42,

34

70, 50, 30,

10

-10

-30

5. A carnival is held over three days. In total, 341 056 people attended.

On the first day, 82 154 people attended.

On the second day, 128 932 people attended.

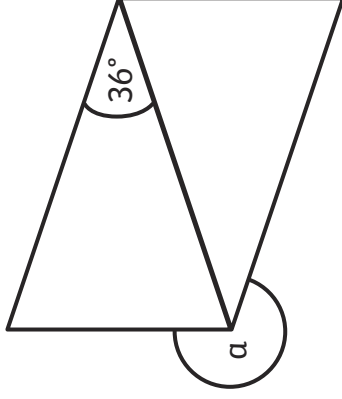
How many people attended on the third day?

$$82\ 154 + 128\ 932 = 211\ 086$$

$$341\ 056 - 211\ 086 = 129\ 970$$

6.

Aisha puts two identical isosceles triangles together like this:



Calculate angle a .

$$180 - 36 = 144$$

$$144 \div 2 = 72$$

$$72 + 36 = 108$$

$$360 - 108 = 252^\circ$$

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3. Fill in the missing digits in this calculation.

	x						
		3	7	3	7	5	
2	2	2	4	2	5	0	
2	6	1	6	2	2	5	

4.

Here are the numbers of visitors to a theatre over 4 weekends.

What is the mean number of visitors per weekend?

Weekend	Number of Visitors
1	8746
2	9258
3	9275
4	13041

5.

There are 20 cherry tomatoes in one small pack.

A box containing packs of cherry tomatoes has 1000 tomatoes in. How many packs are in the box?

The full box weighs 6.5kg. How much does one pack of tomatoes weigh?

6.

Carina chooses a number. When she multiplies her number by 3, the answer is less than 100. When she multiplies her number by 4, the answer is more than 100.

What number could she have started with?

1. Look at the number cards. Write them in order from smallest to largest.

2 603 406

2 060 403

2 060 340

2 036 640

2 604 603

smallest

2 036 640

2 060 340

2 060 403

2 603 406

2 604 603

largest

2.

At the cafe, Rob buys 3 cupcakes and 2 milkshakes for £14.85.

Faith buys 3 milkshakes for £10.35.

How much does 1 cupcake cost?

$$\text{£}10.35 \div 3 = \text{£}3.45 \text{ (1 milkshake)}$$

$$\text{£}3.45 \times 2 = \text{£}6.90 \text{ (2 milkshakes)}$$

$$\text{£}14.85 - \text{£}6.90 = \text{£}7.95 \text{ (3 cupcakes)}$$

$$\text{£}7.95 \div 3 = \text{£}2.65 \text{ (1 cupcake)}$$

3.

Fill in the missing digits in this calculation.

	7	4	7	5
	x		3	5
	3	7	3	7
2	2	4	2	5
2	6	1	6	2

4.

Here are the numbers of visitors to a theatre over 4 weekends.

What is the mean number of visitors per weekend?

Weekend	Number of Visitors
1	8746
2	9258
3	9275
4	13041

$$8746 + 9258 + 9275 + 13041 = 40\ 320$$

$$40\ 320 \div 4 = 10\ 080$$

5.

There are 20 cherry tomatoes in one small pack.

A box containing packs of cherry tomatoes has 1000 tomatoes in. How many packs are in the box?

$$1000 \div 20 = 50$$

The full box weighs 6.5kg. How much does one pack of tomatoes weigh?

$$6.5\text{kg} \div 50 = 6500\text{g} \div 50 = 130\text{g}$$

6.

Carina chooses a number. When she multiplies her number by 3, the answer is less than 100. When she multiplies her number by 4, the answer is more than 100.

What number could she have started with?

**She could have any of these:
26, 27, 28, 29, 30, 31, 32, 33**

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1. Callum is a runner. He says, "Yesterday I ran 3 miles and 20 yards."

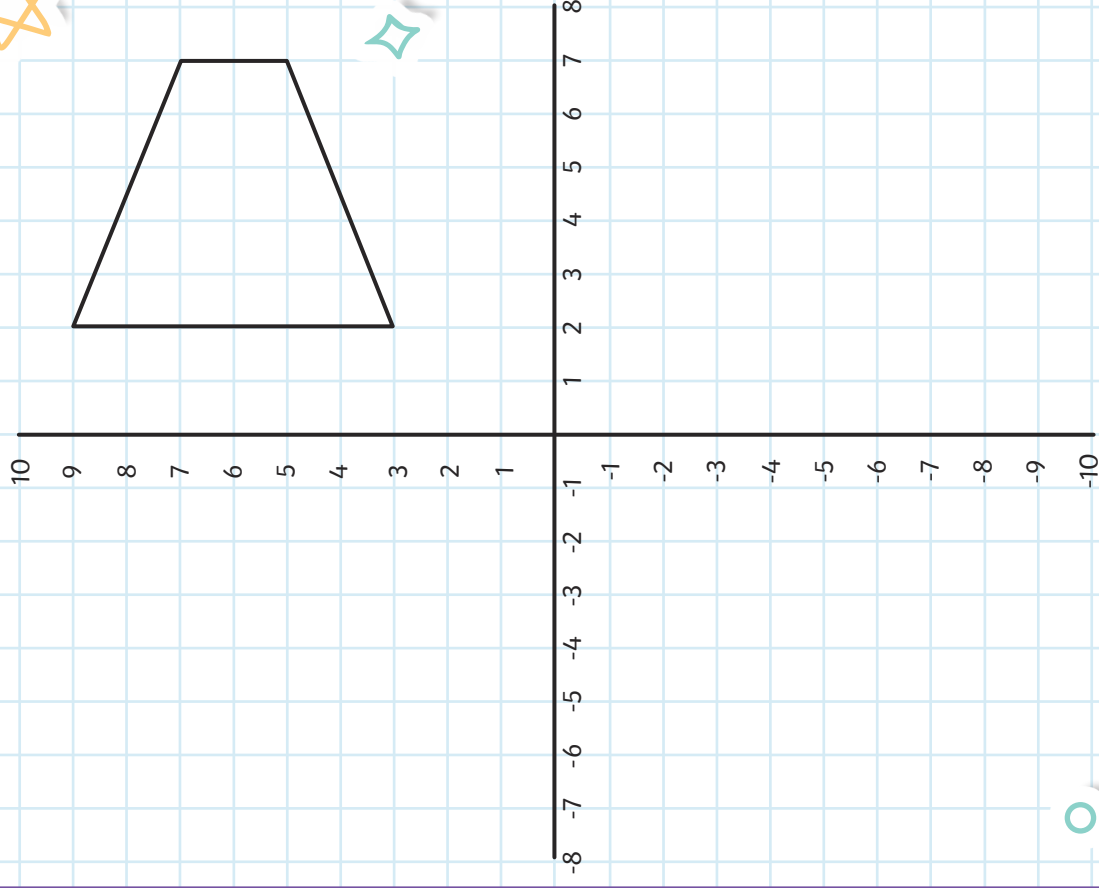
How far did he run in metres?

Conversion Table

1 mile	1.6km
1 yard	91cm

2. Look at this shape.

Translate the shape 10 squares down and draw the new shape. Then, reflect the new shape in the y-axis and draw it on the grid.



3. Match the numbers that add together to make 10.

9.99

8.09

9.09

9.89

9.9

0.91

0.1

0.11

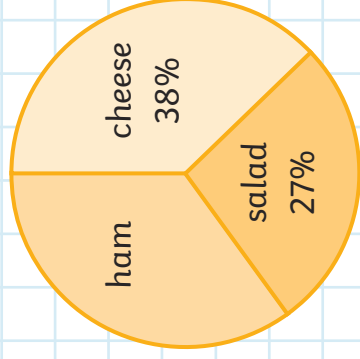
1.91

0.01

4.

800 children were asked to vote for their favourite sandwich filling. This pie chart shows the results.

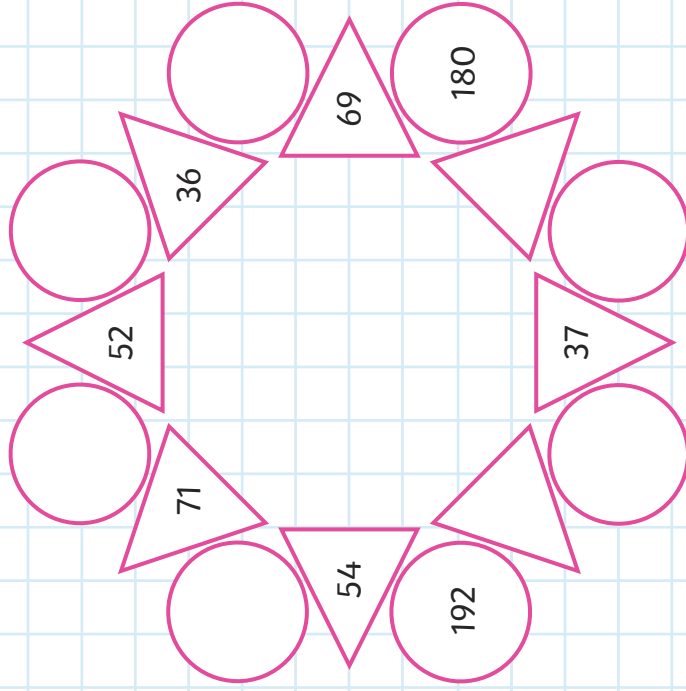
How many children voted for ham?



5.

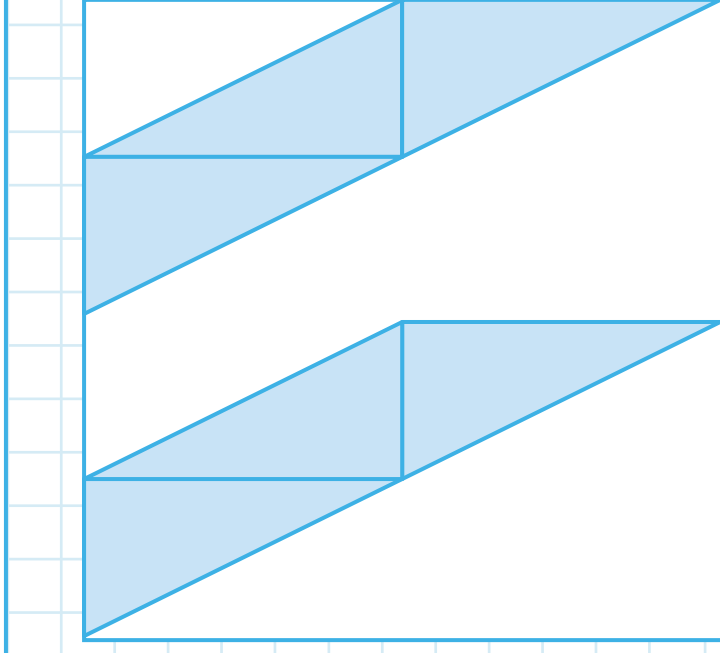
To find the totals in the circles in this diagram, you need to add the two numbers in the triangles on either side of each circle and double the answer.

Fill in the missing numbers.



6.

This shape is made up of identical triangles.
What fraction of the whole shape is shaded?



1.

Match the numbers that add together to make 10.

Conversion Table

1 mile	1.6km
1 yard	91cm

$$3 \times 1.6 = 4.8\text{km} = 4800\text{m}$$

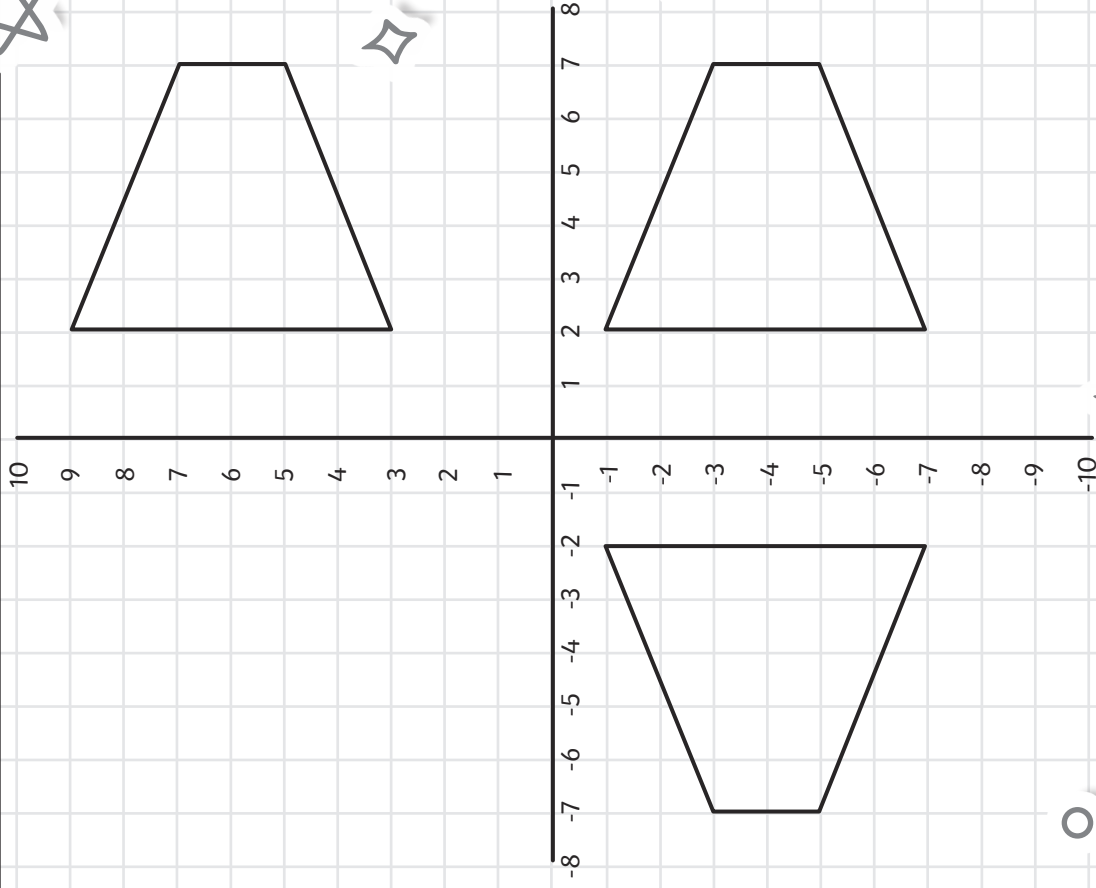
$$20 \times 91 = 1820\text{cm} = 18.2\text{m}$$

$$4800 + 18.2 = 4818.2\text{m}$$

2.

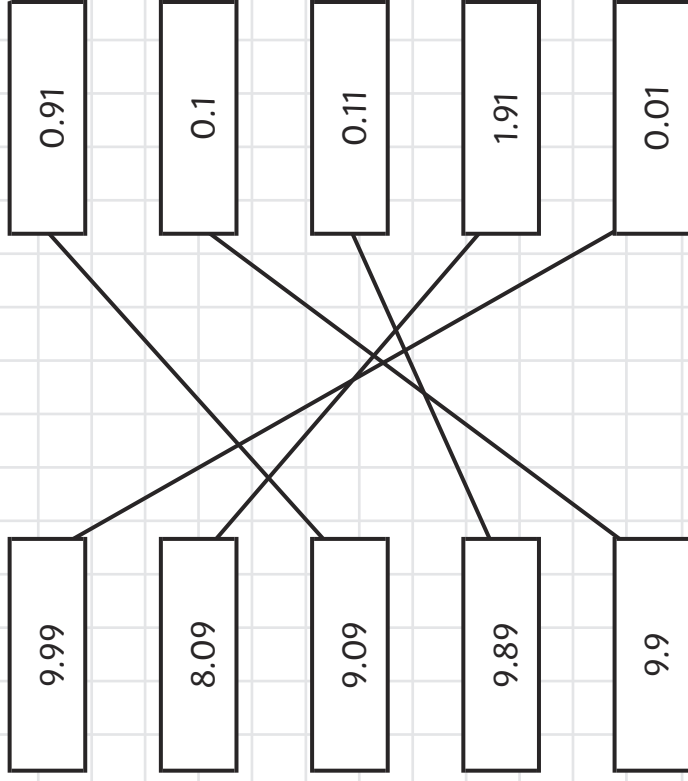
Look at this shape.

Translate the shape 10 squares down and draw the new shape. Then, reflect the new shape in the y-axis and draw it on the grid.



3.

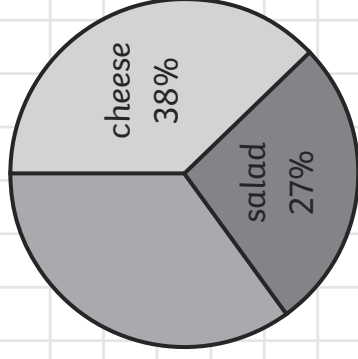
Match the numbers that add together to make 10.



4.

800 children were asked to vote for their favourite sandwich filling. This pie chart shows the results.

How many children voted for ham?



$$38\% + 27\% = 65\%$$

35% voted for ham.

35% of 800:

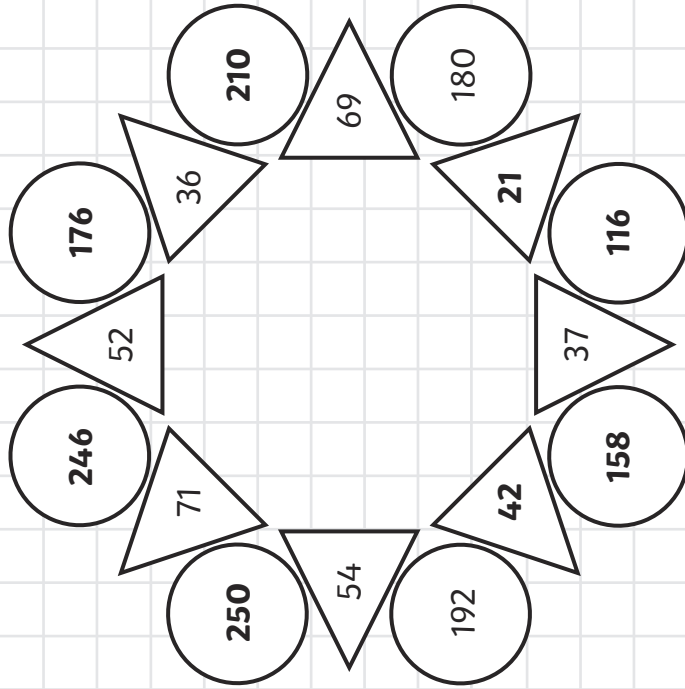
$$0\% \text{ of } 800 = 80$$

$$5\% \text{ of } 800 = 40$$

$$35\% \text{ of } 800 = 80 + 80 + 80 + 40 = 280$$

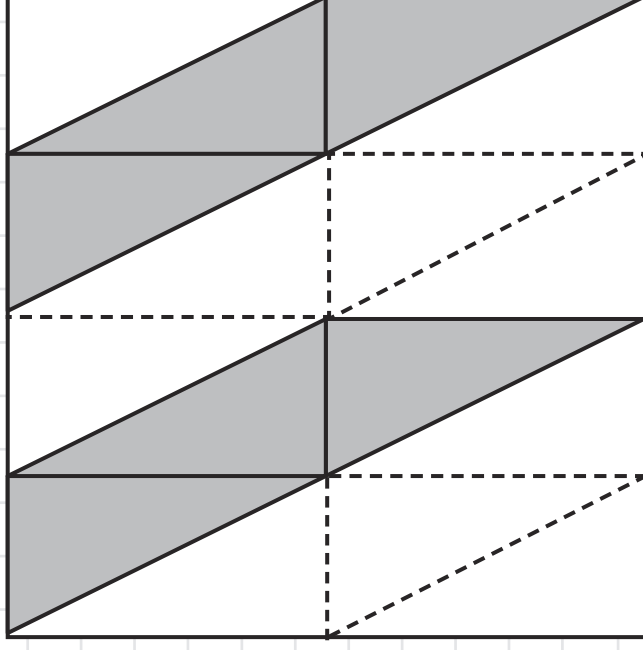
5.

To find the totals in the circles in this diagram, you need to add the two numbers in the triangles either side of each circle and double the answer.



6.

This shape is made up of identical triangles.
What fraction of the whole shape is shaded?



$\frac{6}{16}$ or $\frac{3}{8}$

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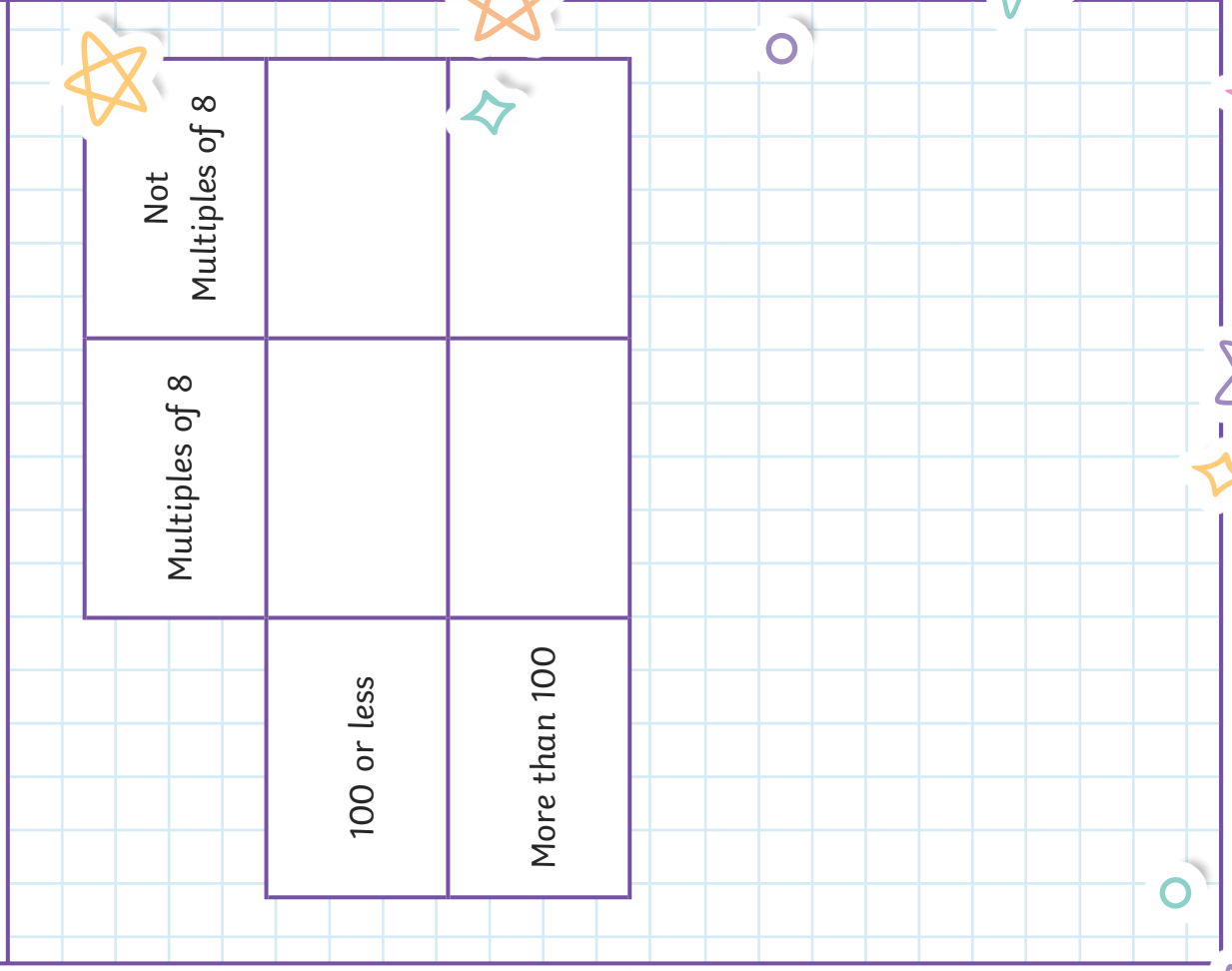
1. The area of Hettie's field is 5178m^2 .

The length of Kenny's field is 82m and the width is 63m .

Whose field has the largest area and by how much?

2. Here is a Carroll diagram.

Write two numbers in each section of the Carroll diagram.



3. Fill in the missing fractions in these calculations.

$$3 \frac{3}{8} + \boxed{} = 7 \frac{7}{8}$$

$$1 \frac{2}{5} - \boxed{} = 3 \frac{3}{5}$$

$$2 \frac{2}{5} + \boxed{} = 9 \frac{9}{10}$$

4.

Tilly has some cards with Roman numerals on. Order them from smallest to largest.

LXXIV	CXI	MX	LVII	XCVI
-------	-----	----	------	------

smallest largest

--	--	--	--	--

5. Ben is thinking of a number. He says, "30% of my number is 78."

What is 55% of Ben's number?

6.

In this sequence, the rule to get to the next number is:

multiply by 3, then subtract 6

Use the rule to work out the missing numbers.

<input type="text"/>	<input type="text"/>	39, 111	<input type="text"/>
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1.

The area of Hettie's field is 5178m^2 .

The length of Kenny's field is 82m and the width is 63m .

Whose field has the largest area and by how much?

$$82 \times 63 = 5166$$

$$5178 - 5166 = 12$$

Hettie's field has a larger area by 12m^2 .

2.

Here is a Carroll diagram.

Write two numbers in each section of the Carroll diagram.

There are lots of numbers that could go

	Multiples of 8	Not Multiples of 8
100 or less	E.g. 8, 16, 24, 40, 64, 72, 88, 96, etc	E.g. 43, 21, 6, 18, 67, 84, 36, 92, etc
More than 100	E.g. 104, 112, 168, 248, 800, etc	E.g. 114, 157, 202, 156, 170, etc

3. Fill in the missing fractions in these calculations.

$$\frac{3}{8} + \boxed{\frac{4}{8}} = \frac{7}{8}$$

$$1\frac{2}{5} - \boxed{\frac{3}{5}} = \frac{3}{5}$$

$$\frac{2}{5} + \boxed{\frac{5}{10} \text{ or } \frac{1}{2}} = \frac{9}{10}$$

4.

Tilly has some cards with Roman numerals on. Order them from smallest to largest.

LXXIV	CXI	MX	LVII	XCVI
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smallest

largest

LVII	LXXIV	CXI	XCVI	MX
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5.

Ben is thinking of a number. He says, "30% of my number is 78."

What is 55% of Ben's number?

$$78 \div 3 = 26 = 10\%$$

$$26 \div 2 = 13 = 5\%$$

$$26 \times 5 = 130 = 50\%$$

$$130 + 13 = 143 = 55\%$$

6.

In this sequence, the rule to get to the next number is:

multiply by 3, then subtract 6

Use the rule to work out the missing numbers.

7

15

39, 111

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We hope you find the information on our website and resources useful. As far as possible, the contents of this resource are reflective of current professional research. However, please be aware that every child is different and information can quickly become out of date. The information given here is intended for general guidance purposes only and may not apply to your specific situation.



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