1st October Primary 5-a-day Gold

Simplify $\dfrac{15}{45}$

7.59 − 1.998

Here are five letters on a scale

A
B
C
D
E

1 kilogram

2 kilograms

Match each letter to one of the masses in the list

1410 g

1.11 kg

1.8 kg

$1\dfrac{1}{4}$ kg

1550 g

Three whole numbers add up to 40.

Magnus says,

"All three numbers must be even."

Is Magnus correct?

Name: _____

2nd October   Primary 5-a-day   Gold

$$\begin{array}{r} 6\ 7 \\ \times\ \ 4\ 4 \\ \hline \end{array}$$
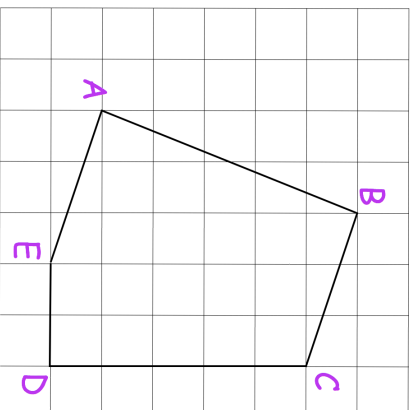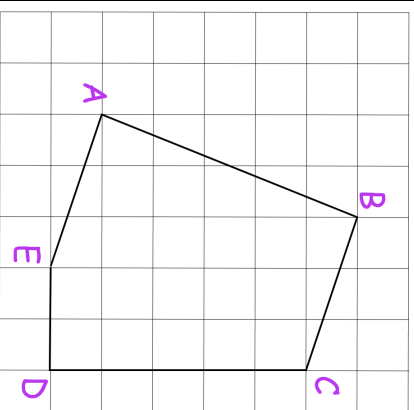
$$\frac{7}{8} - \frac{3}{4}$$

Work out the cost of 250g of cheese

Cheese
£1.10 per 100g

Which two lines are **parallel**?

AB   BC   CD   DE   EA

Which two lines are **perpendicular**?

AB   BC   CD   DE   EA

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Name: _____

2nd October   Primary 5-a-day   Gold

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$6\overline{)7044}$

$\dfrac{1}{10} \times 8$

Three single-digit numbers multiply to make 448
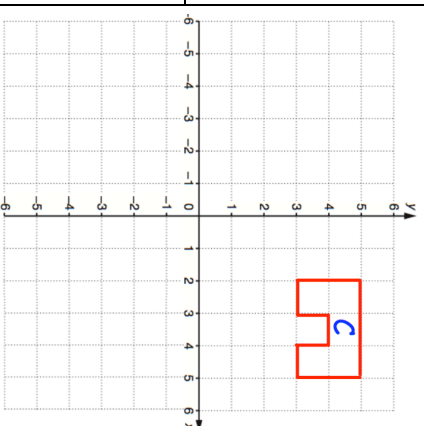
Write the missing numbers

□ × □ × □ = **448**

Plot the point (−4, −3)

Reflect C in the y-axis

50% of 170

45 × 21

A house is 10 metres wide and 7 metres tall.

How tall is her model?
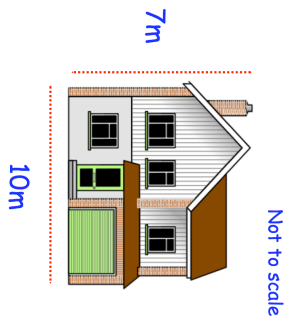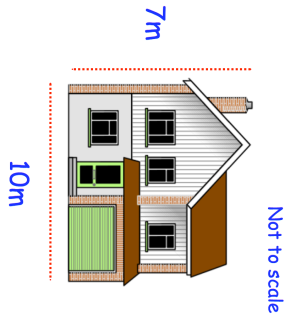
How many centimetres are in 1.8 metres?

7m

10m

Not to scale

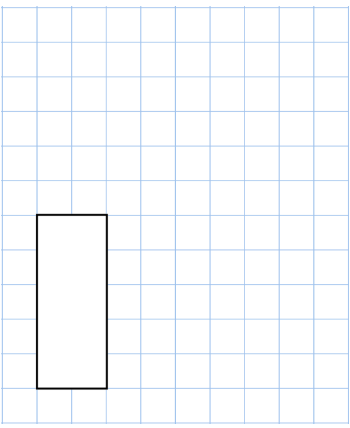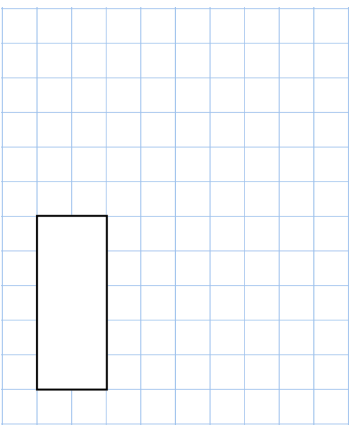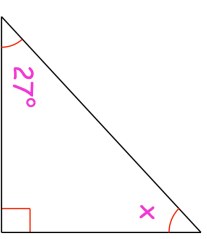Kirsty makes a scale model of the house.
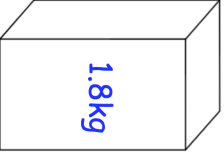
Her model is 20 centimetres wide
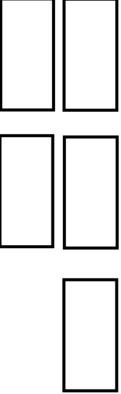
Draw a 125° angle
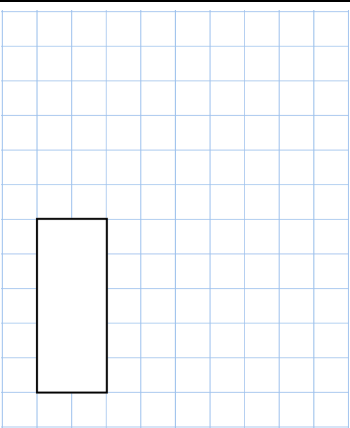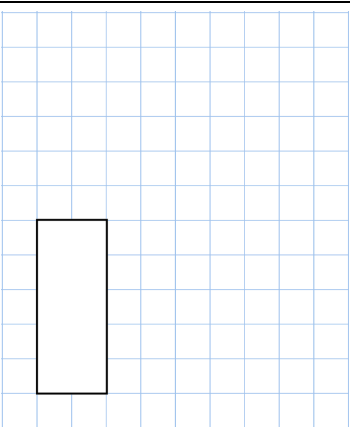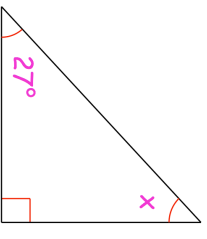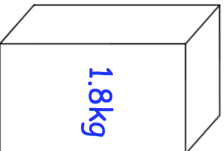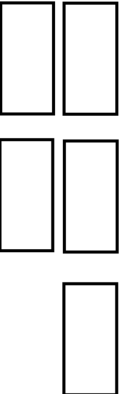
0.3 ÷ 10

2.76 + 1.451

Calculate the size of angle x

27°

x

How many meals did Laura make?

She uses all the rice.

Laura uses 45 grams of rice for each meal.

A box contains 1.8kg of rice

1.8kg

Hendrik has five coins.

What are the coins that Hendrik has?

All five coins add up to £3.60

Three of the coins add up to £2.40

Three of the coins add to £1.40

25% of 364

Three coffees and a flapjack cost £7.35.

The cost of the flapjack was 90p

Work out the cost of four coffees.

$7 \overline{)1\ 4\ 9\ 8}$

This shape is made from four identical curves

The perimeter of the shape is 72 centimetres

A new shape is made out of curves of the same size
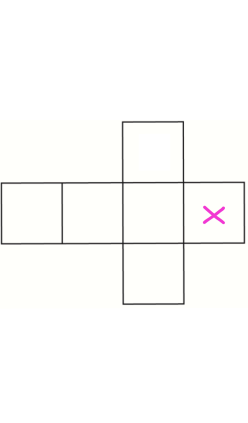
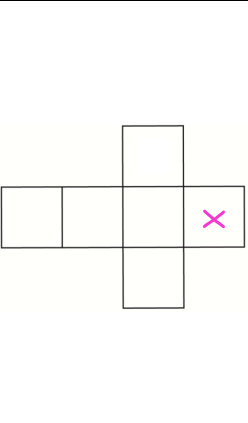What is the perimeter of the new shape?

$$0.75 = \frac{\square}{\square}$$

$$53 \times 18$$

Here is a net of a cube.

Draw one more cross so that the cube will have crosses on opposite faces

The population of London is 8,136,121

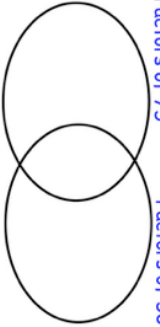How many more people live in London than these four cities combined?

City	Population
Brighton	273,369
Preston	190,687
Birmingham	1,224,136
Telford	166,641

13^2

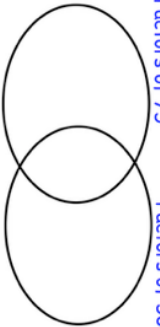$$3\frac{7}{12} = \frac{\square}{12}$$

Hannah says

"there are more prime numbers between 1 and 10 than between 10 and 20.

Is Hannah right?

Hannah has £700

She spends **15%** of her money on a new guitar.

How much does Hannah spend on her guitar?

Write these numbers in the correct places on the diagram

Factors of 75   Factors of 50

$$\frac{13}{4} = 3\frac{\square}{4}$$

$$\begin{array}{r} 8\ 9\ 2\ 0\ 6 \\ -\ 6\ 7\ 3\ 1\ 7 \\ \hline \end{array}$$
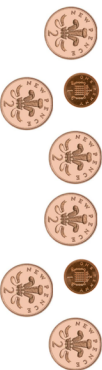
What fraction of the cars in the car park are red or blue?

$\frac{1}{2}$ of the cars in a car park are red

$\frac{1}{4}$ of the cars in the car park are blue

What is the total mass of these eight coins?

The mass of a 2p coin is 7.1 grams.
The mass of a 1p coin is half the mass of a 2p coin.

Here is a number written in Roman numerals

CXXXV

Write the number in figures

10th October   Primary 5-a-day   Gold

10^2

$\dfrac{4}{5} - \dfrac{8}{15}$

Josie has 1.2 kilograms of flour.

She uses 0.75 kilograms of flour to make a cake.

How much flour does she have left?

Find the size of each angle
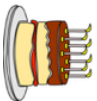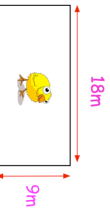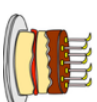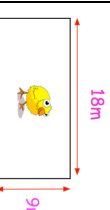
A straight line has been divided into 3 equal size angles.
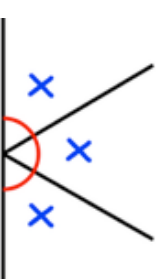
Mrs Jenkins is a chicken farmer
Her rectangular chicken pen is 18 metres long and 9 metres wide.
Each chicken needs at least 3m² of space.

How many chickens can she keep?

18m

9m

$$\frac{8}{\square} = \frac{64}{72}$$

```
    5 8 0 0 2
  +   3 1 0 1 9
  _____
```

Work out the area of the triangle

18m   20m

There are 250 children at the school.
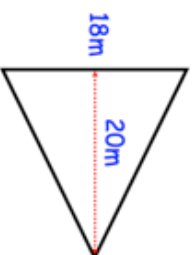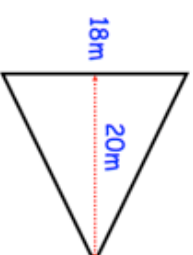
20% of the children at a school are left handed.

How many children are left handed?

Write three factors of 40 that are **not** factors of 36

8.9×100

Here is a list of numbers

8   11   14   16   25   27

From the list, write down the cube numbers

$$\begin{array}{r} 3\ 9 \\ \times\ \ 3\ 4 \\ \hline \end{array}$$

Mr Smith makes a tower of 30 identical books.
Mr Smith adds nine more books.

How tall is the tower now?

270cm

Tick two numbers that are equivalent to $\frac{3}{5}$

35% ☐

$\frac{30}{50}$ ☐

0.35 ☐

0.6 ☐

75% of 20

$$\frac{6}{7} = \frac{18}{\boxed{}}$$

This week Harry spent $\frac{2}{3}$ of his pocket money on a ticket for a match.

He also spent $\frac{1}{9}$ of his pocket money on a scarf at the match.

What fraction of his pocket money has Harry spent?

Write the correct symbol in the box

| < | = | > |

2 – 3   □   20 – 30

Sarah has the same number of 2p coins as 5p coins.

Sarah has £2.10 in 2p coins.

How much money does Sarah have in total?

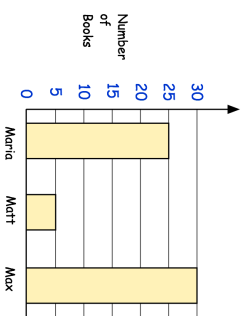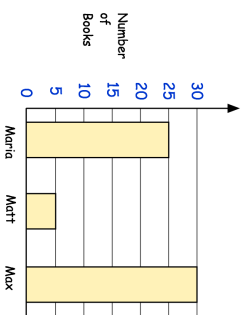$$\begin{array}{r} 9\ 3 \\ \times \quad 7\ 4 \\ \hline \end{array}$$

50^3

Over 20 days in February, it rained on 12 days.

What fraction of the days were rainy? Simplify your answer.

Work out the mean number of books

Number of Books

30
25
20
15
10
5
0

Maria   Matt   Max

Grapes cost £3.20 per kilogram
Blueberries cost £7 per kilogram

Work out the **total cost** of 250g of grapes and 100g of blueberries

15th October

Simplify $\dfrac{18}{22}$

$-12 + 7$

Match up the equivalent mixed numbers and improper fractions.

$2\dfrac{1}{4}$	$\dfrac{7}{4}$
$2\dfrac{1}{3}$	$\dfrac{11}{3}$
$1\dfrac{3}{4}$	$\dfrac{7}{3}$
$3\dfrac{2}{3}$	$\dfrac{9}{4}$

Plot the point A (−1, 3)
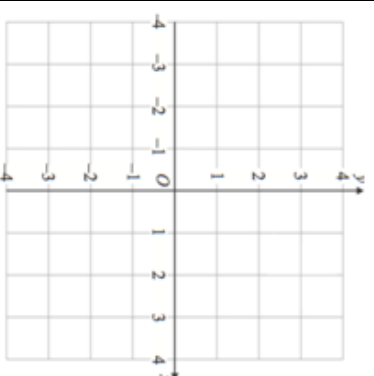
Plot the point B (2, −1)

16th October   Primary 5-a-day   Gold

$9\overline{)2\ 3\ 7\ 6}$

20% of 30

Change 780 metres into kilometres

Change 0.02 kilograms to grams

Circle all the prime numbers

5   7   15   17   25   27

A 2p coin has a mass of 7 grams.
Find the total mass of £8 of 2p coins.

50% of 80

Find the size of angle x.
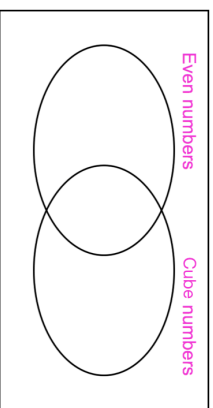
$9 \overline{)7\ 1\ 1}$
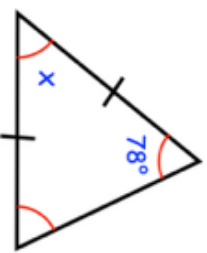
Jessica has £600.
She gives 50% to her mother.
Jessica gives 10% to her brother.
She keeps the rest.

How much money does Jessica keep?

Write each number in the correct position on the diagram.
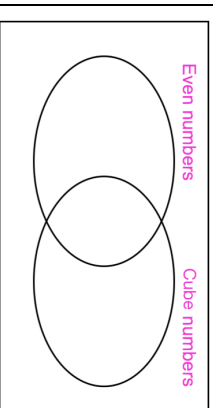
8   24   27   55   68

Even numbers   Cube numbers

Name: _____

18th October

Primary 5-a-day

Gold

0.4 = [____] %

$\frac{9}{10} + \frac{1}{2}$

[____]

Write down **all** the common multiples of 4 and 9 that are less than 100.

[____] %

Reflect triangle B in the x-axis

19th October   Primary 5-a-day   Gold

$$\frac{3}{8} - \frac{1}{4}$$

x = [   ]°

y = [   ]°

Write down 3 different fractions that are equivalent to $\frac{3}{5}$

Sophie has £2.12
Orla has 84p

How much money should Sophie give Orla so that they have the same amount of money?
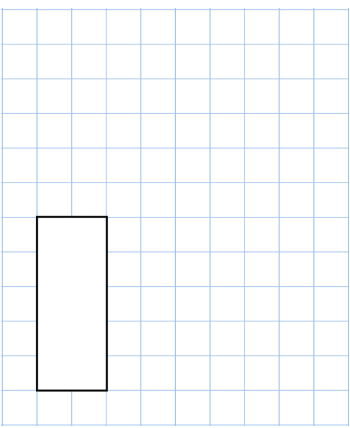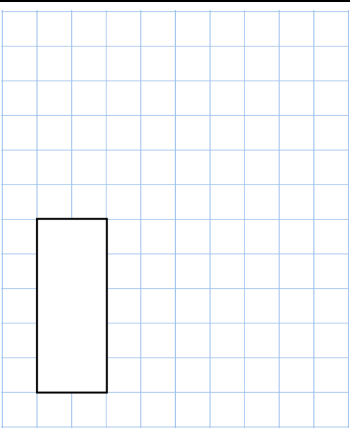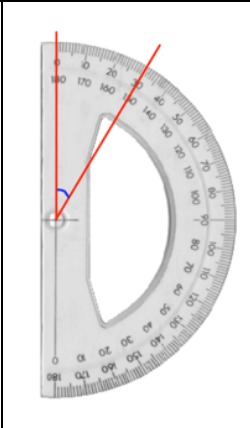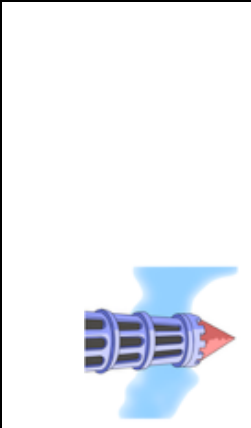
8 ⟌ 9 3 6

55°
y
x

20th October Primary 5-a-day Gold
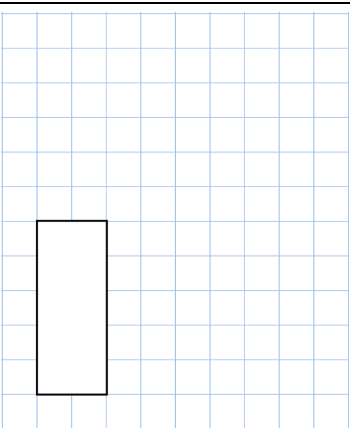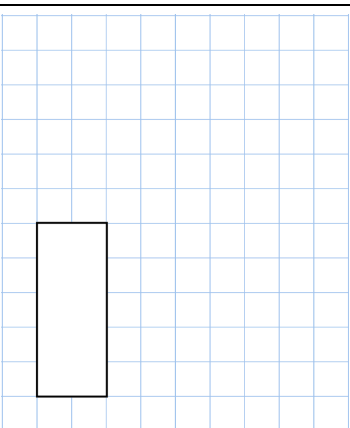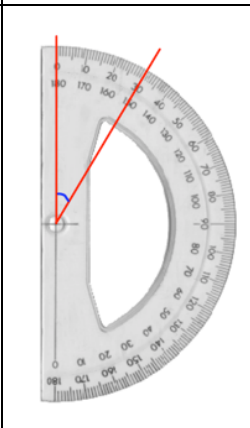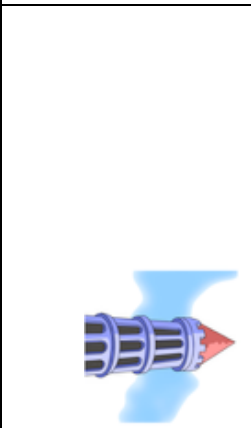
$5 \times 5 \times 5 \times 5$

$1,032 \div 6$

Write down the size of the angle being measured.

A group of 9 friends go on a coach tour.
The total cost of the tour is £648

How much does each person pay?

Magnus has five coins

Three of the coins add up to £1.40
Three of the coins add up to £2.40

All five coins add up to £3.60

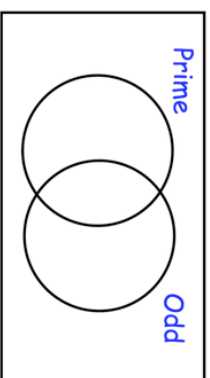What coins does Magnus have?

0.08×10

$2\frac{1}{2} = \frac{\square}{2}$

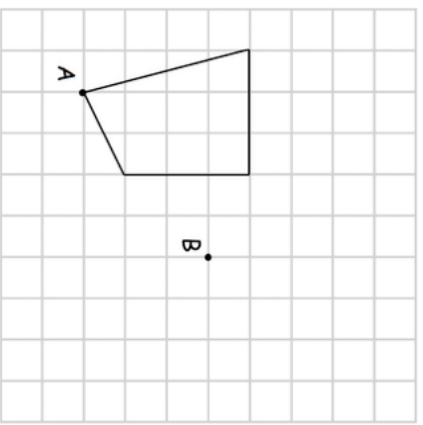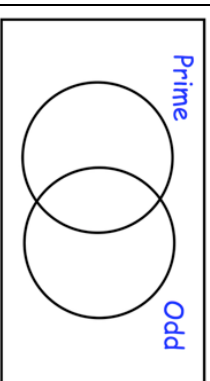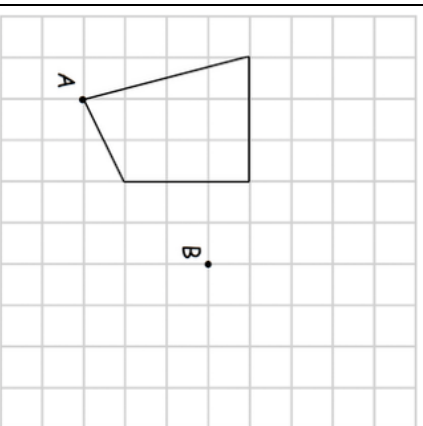Write each number in its correct place

1   2   6   5   11   15

Here is a quadrilateral on a grid.

The quadrilateral is translated so that point **A** moves to point **B**.

Draw the quadrilateral in its new position.

22nd October   Primary 5-a-day   Gold

−30 − 55

```
    6 8
  ×   2 4
  ───────
```

Write these numbers in order, starting with the smallest.

0.304   0.41   0.088   2.1   0.9

How much does each child pay?

Large pizzas cost £6.25 each
Small pizzas cost £4.80 each

Five children together buy two large pizzas and one small pizza.

They share the cost equally.

How much is Harry paid?

Jack and Harry are waiters in a restaurant. They are both paid the same amount of money for each hour they work.

Jack worked 5 hours and is paid £32

Harry worked 7 hours

Primary 5-a-day

Gold

75% of 600

9^2

Jon and Callum have the same number of coins.

How much money does Callum have?

Jon has £9.40 in 20p coins. Callum has 50p coins.

Emily has four pots of crayons.

Three of the pots have 10 crayons and the other pot has 6 crayons.

What is the **mean** number of crayons in a pot?

Saffron costs £6.18 per gram.

What is the cost of **a tenth a kilogram** of saffron

$$\begin{array}{r} 1\ 0\ 5 \\ \times\ \ 1\ 1 \\ \hline \end{array}$$

$$\frac{1}{3} + \frac{2}{15}$$

List the first five prime numbers

An adult ticket for a football match is £9.00

A child ticket is 20% cheaper than an adult ticket.

How much is a child ticket?

In Victoria's class, there are 20 students

Explain why Victoria must be wrong

Exactly $\frac{2}{7}$ of the students in the class wear glasses.

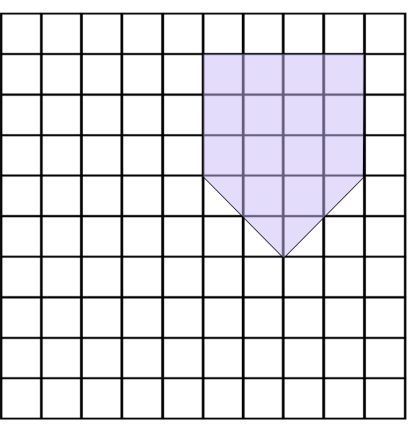
Name: _____

25th October

Primary 5-a-day

Gold

2^3

On the grid, draw a **square** which has the **same area** as the pentagon
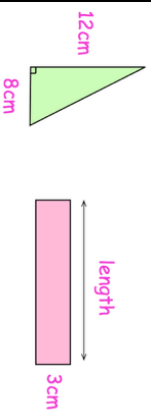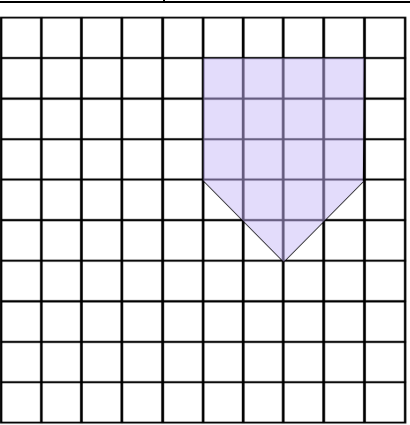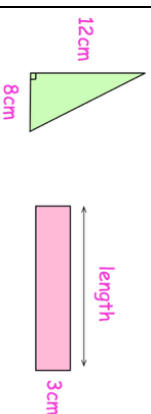
$0.7 = \dfrac{\square}{\square}$

Draw any lines of symmetry on the **pentagon** and the **square**
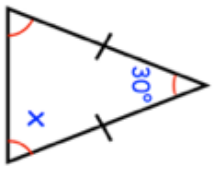
Work out the length of the rectangle.

12cm

8cm

length

3cm

The triangle and rectangle have the same area

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26th October   Primary 5-a-day   Gold
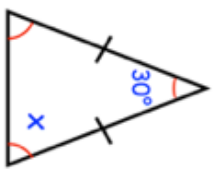
$$7\overline{)6\ 9\ 2}$$

☐

$$\frac{1}{4} = \boxed{} \%$$

Calculate the size of angle x

30°

x

☐ %

☐ %

In a bag, there are green, white and blue counter.

$\frac{1}{10}$ of the counters are green.

$\frac{3}{5}$ of the counters are white.

What fraction of the counters are blue?

Write the number 315 in Roman numerals
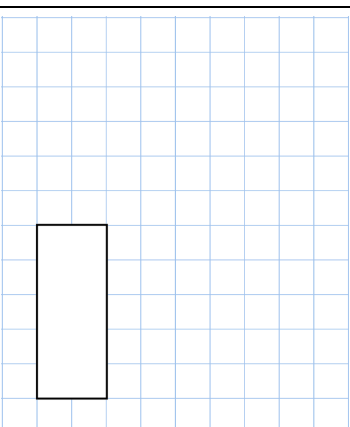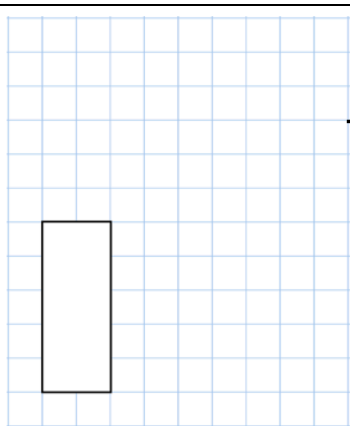
27th October

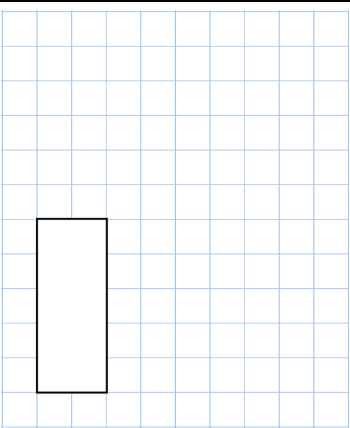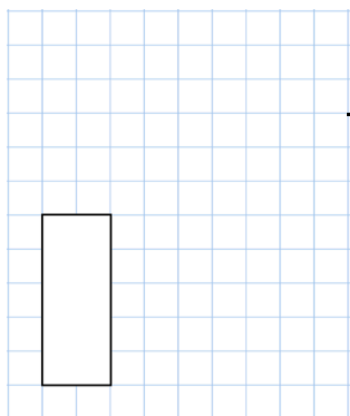$$\frac{2}{11} = \frac{28}{\square}$$

What is the perimeter of this rectangle?

$$2\,0\,\overline{)1\,0\,8\,0}$$

3.46 cm

5.7 cm

Two of the fractions are equivalent

Circle the equivalent fractions.

$$\frac{2}{3} \quad \frac{12}{15} \quad \frac{9}{12} \quad \frac{16}{20} \quad \frac{6}{10}$$

Michael and Rosie each have a bottle of water.

Michael's bottle contains $1\frac{3}{4}$ litres

Rosie's bottle contains 2.2 litres.

How many more **millilitres** of water does Rosie have than Michael?

28th October Primary 5-a-day Gold

Simplify $\dfrac{7}{28}$

$\dfrac{2}{5} =$ ◻ %

◻ %

Write the correct symbol in each box to make the statements correct.

∨ ‖ ∧

12 × 12	◻	14 × 10
80 ÷ 20	◻	75 ÷ 25
60 × 4	◻	3 × 80
120 ÷ 5	◻	5²

Circle any pattern that has a line of symmetry

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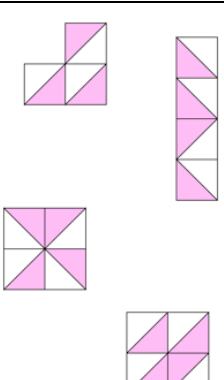
29th October Primary 5-a-day Gold

$$\begin{array}{r} 3\ 9 \\ \times\ \ 3\ 8 \\ \hline \end{array}$$

Work out the **sum** of 538,597 and 765,432

$25 \times 8 \times 7$

Work out 25% of Toto's mass.
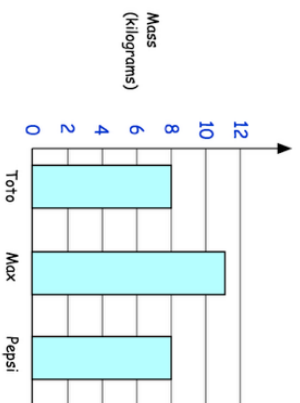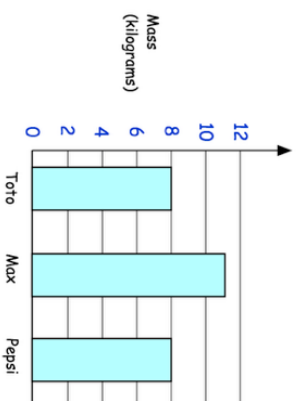
Work out the mean mass of the puppies.

Mass (kilograms)

12
10
8
6
4
2
0

Toto   Max   Pepsi

14^2

$$\frac{1}{4} - \frac{3}{16}$$

Rhys buys 3 magazines.

The first magazine cost £4.99
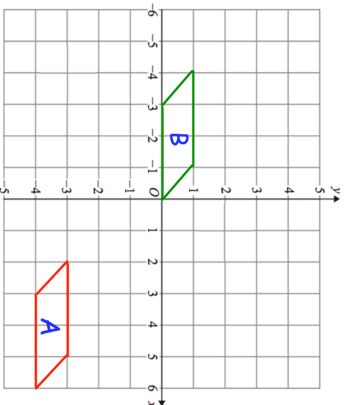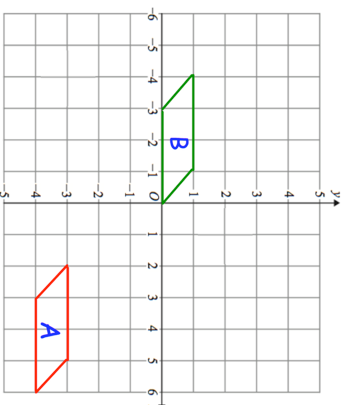The second magazine cost £3.45
The third magazine cost £4.80

He pays with a £20 note.

Work out how much change Rhys should receive.

A parallelogram is translated from position A to position B

Complete the sentence

The parallelogram has moved ☐ squares to the left
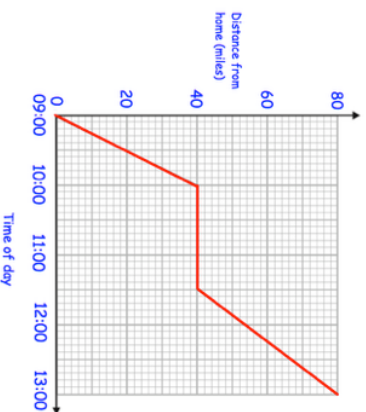
and ☐ squares up

$$\begin{array}{r} 6\ 4 \\ \times \quad 7\ 9 \\ \hline \end{array}$$

Simplify $\dfrac{6}{9}$

Natalie travels from her home to London.

How far was Natalie from home when she visited Edward?

Distance from home (miles)

Time of day

She stopped and visited her friend Edward on the way.

How long did Natalie stop for?

Jack buys three pens.

He pays with a £20 note.
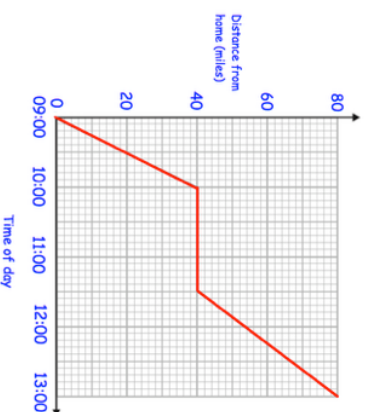His change is £13.49

How much would two pens cost?

$$\begin{array}{r} 6\ 4 \\ \times \quad 7\ 9 \\ \hline \end{array}$$

Simplify $\dfrac{6}{9}$

Natalie travels from her home to London.

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His change is £13.49

How much would two pens cost?