

Name: Answers

5-a-day

Gold



1st October

Simplify $\frac{15}{45}$

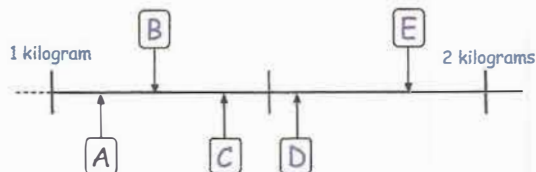
$\frac{1}{3}$

$7.59 - 1.998$

$$\begin{array}{r} 6 \text{ } ^1\text{ } ^1\text{ } ^1\text{ } ^1\text{ } \\ 7.590 \\ - 1.998 \\ \hline 5.592 \end{array}$$

5.592

Here are five letters on a scale



Match each letter to one of the masses in the list

1410 g

C

1.11 kg

A

1.8 kg

E

$1\frac{1}{4}$ kg

B

1550 g

D

Three whole numbers add up to 40.

Magnus says,

"All three numbers must be even."

Is Magnus correct?



No, it could be
2 odds and 1 even
ie $15 + 13 + 12 = 40$

Name: Angela

5-a-day

Gold



2nd October

$$\begin{array}{r} 67 \\ \times 44 \\ \hline 268 \\ 2680 \\ \hline 2948 \end{array}$$

2948

$$\frac{7}{8} - \frac{3}{4}$$

$$\frac{7}{8} - \frac{6}{8} =$$

$\frac{1}{8}$



Cheese
£1.10 per 100g

Work out the cost of 250g of cheese

£2.75

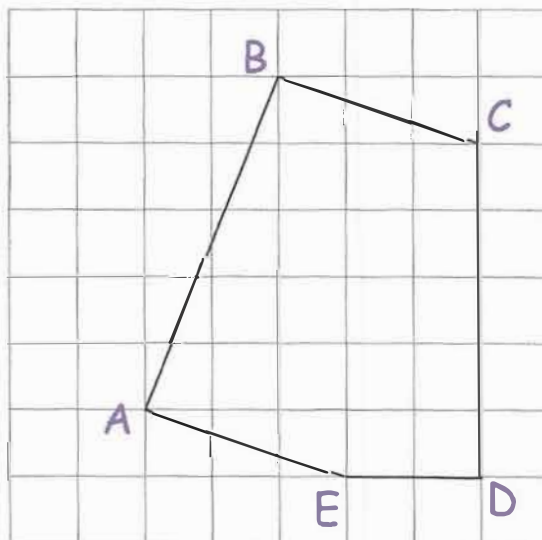
$$\begin{array}{l} 200g \rightarrow £2.20 \\ 50g \rightarrow £0.55 \\ \hline £2.75 \end{array}$$

Which two lines are **parallel**?

AB (BC) CD DE (EA)

Which two lines are **perpendicular**?

AB BC (CD) (DE) EA



Name: Answer

5-a-day

Gold



3rd October

$$\begin{array}{r} 1174 \\ 6 \overline{) 70424} \end{array}$$

1174

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

$$= \frac{8}{10} \text{ or } \frac{4}{5}$$

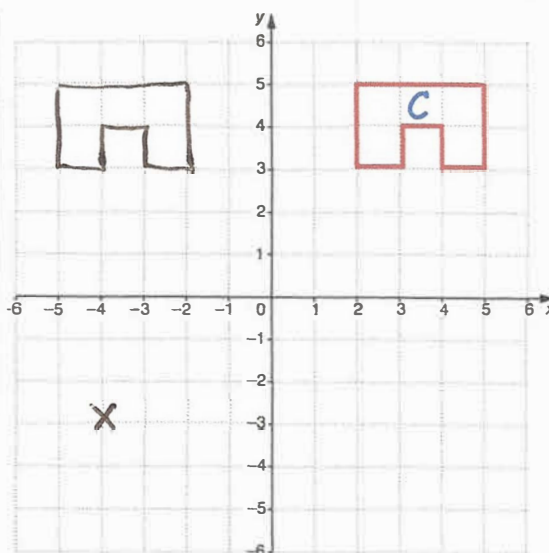
$\frac{4}{5}$

Three single-digit numbers multiply to make 448

Write the missing numbers

$$\boxed{8} \times \boxed{8} \times \boxed{7} = 448$$

Plot the point $(-4, -3)$



Reflect C in the y-axis

Answers

5-a-day

Gold



4th October

50% of 170

85

 45×21

$$\begin{array}{r} 45 \\ \times 21 \\ \hline 45 \\ 900 \\ \hline 945 \end{array}$$

945

A house is 10 metres wide and 7 metres tall.



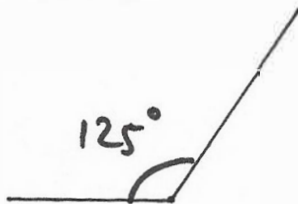
Not to scale

10m

Kirsty makes a scale model of the house.

Her model is 20 centimetres wide

Draw a 125° angle



How tall is her model?

14cm

How many centimetres are in 1.8 metres?

180 cm

Name: Arman

5-a-day

Gold



5th October

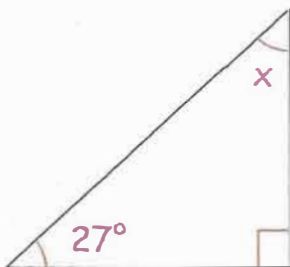
$$0.3 \div 10$$

0.03

$$2.76 + 1.451$$

$$\begin{array}{r} 2.76 \\ 1.451 \\ \hline 4.211 \end{array}$$

4.211



Calculate the size of angle x

$$90 - 27 = 63$$

$$\underline{x = 63^6}$$

A box contains 1.8kg of rice

Laura uses 45 grams of rice for each meal.
She uses all the rice.

How many meals did Laura make?

40

$$1.8 \text{ kg} = 1800 \text{ g}$$

$$1800 \div 45 = 40$$



Hendrik has five coins.

Three of the coins add to £1.40

Three of the coins add up to £2.40

All five coins add up to £3.60

What are the coins that Hendrik has?

叔

まゝ

202

202

20p

Name: Answer

5-a-day

Gold



6th October

25% of 364

$$\begin{array}{r} 91 \\ 4 \overline{) 364} \end{array}$$

91

$$\begin{array}{r} 214 \\ 7 \overline{) 1498} \end{array}$$

214

Three coffees and a flapjack cost £7.35.

The cost of the flapjack was 90p

Work out the cost of four coffees.

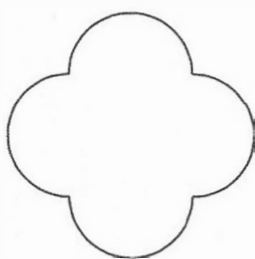
£8.60

$$7.35 - 0.90 = 6.45$$

$$6.45 \div 3 = 2.15 \text{ (1 coffee)}$$

$$2.15 \times 4 = \text{£}8.60$$

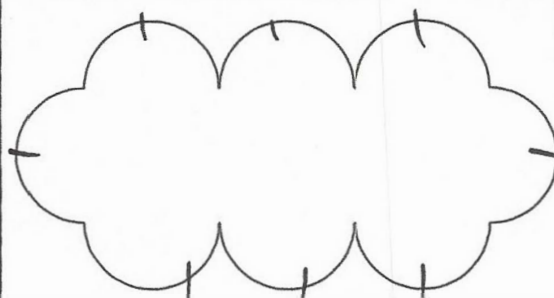
This shape is made from four identical curves



The perimeter of the shape is 72 centimetres

A new shape is made out of curves of the same size

$$72 \div 4 = 18$$



What is the perimeter of the new shape?

$$8 \times 18 = 144 \text{ cm}$$

Name: Andrew

5-a-day

Gold



7th October

$$0.75 = \frac{3}{4}$$

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

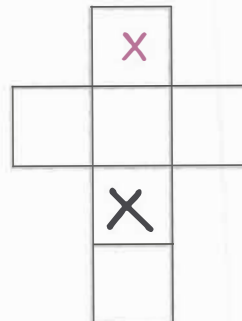
$$53 \times 18$$

$$\begin{array}{r} 53 \\ 18 \\ \hline 424 \\ 530 \\ \hline 954 \end{array}$$

$$954$$

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

$$\text{total} = 1,854,833$$

$$8,136,121 - 1,854,833$$

$$= 6,281,288$$

Name: Arwen

5-a-day

Gold



9th October

$$\frac{13}{4} = 3 \frac{1}{4}$$

1

$$\begin{array}{r} 8 \\ - 6 \\ \hline 2 \end{array}$$

21889

$\frac{1}{2}$ of the cars in a car park are red
 $\frac{1}{4}$ of the cars in the car park are blue

$$\frac{1}{2} + \frac{1}{4} = \frac{3}{4}$$



What fraction of the cars in the car park are red or blue?

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

What is the total mass of these eight coins?

49.7g



$$\begin{array}{r} 6 \times 7.1 = 42.6g \\ + 7.1g \\ \hline 49.7g \end{array}$$

Here is a number written in Roman numerals

CXXXV

Write the number in figures

135



10th October

10^2

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

$$\frac{12}{15} - \frac{8}{15} = \frac{4}{15}$$

100

 $\frac{4}{15}$

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?

0.45 kg

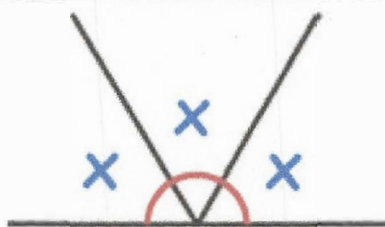
$$1.2 - 0.75 = 0.45 \text{ kg}$$



A straight line has been divided into 3 equal size angles.

Find the size of each angle

$$180 \div 3 = \underline{60^\circ}$$



Mrs Jenkins is a chicken farmer
Her rectangular chicken pen is 18 metres long and 9 metres wide.
Each chicken needs at least 3m^2 of space.

How many chickens can she keep?

54



$$18 \times 9 = 162$$

$$162 \div 3 = 54$$

Name: Anwen

5-a-day

Gold



11th October

$$\begin{array}{r} \times 8 \\ 8 64 \\ \hline \square = \frac{64}{8} \\ 72 \end{array}$$

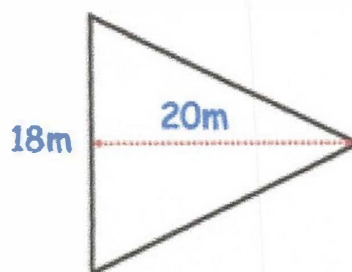
9

$$\begin{array}{r} 5 8 0 0 2 \\ + 3 1 0 1 9 \\ \hline 8 9 0 2 1 \end{array}$$

89,021

Work out the area of the triangle

$$18 \times 20 \div 2 = \underline{180 \text{ m}^2}$$



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

There are 250 children at the school.

How many children are left handed?

50

$$10\% \text{ of } 250 = 25$$

$$20\% \text{ is } 25 \times 2 = 50$$

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

40: 1, 2, 4, 5, 8, 10, 20, 40

5 8 10

or 20 or 40

Name: _____

Answer

5-a-day

Gold



12th October

$$8.9 \times 100$$

$$\begin{array}{r} 39 \\ \times 34 \\ \hline 156 \\ 1170 \\ \hline 1326 \end{array}$$

890

1326

Here is a list of numbers

8 11 14 16 25 27

From the list, write down the cube numbers

8, 27

Mr Smith makes a tower of 30 identical books.

Mr Smith adds nine more books.

How tall is the tower now?

351 cm

each book $270 \div 30 = 9\text{cm}$

$$9 \times 9 = 81 \text{ cm}$$

$$270 + 81 = 351$$

270cm



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

35%

11

$$\frac{30}{50}$$
☒

0.35

□

0.6

☒

Name:

Angela

5-a-day

Gold



13th October

75% of 20

15

$$\begin{array}{r} \times 3 \\ 6 \\ \times 3 \\ \hline 18 \end{array}$$

21

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?

$$\frac{2}{3} + \frac{1}{9} = \frac{6}{9} + \frac{1}{9} = \frac{7}{9}$$

Write the correct symbol in the box

>

=

<

2 - 3

-1

>

20 - 30

-10

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?

£2.10 in 2ps is 105 coins

$$105 \times 5p = 525p$$

$$= £5.25$$

Name: Answer

5-a-day

Gold



14th October

$$\begin{array}{r} 93 \\ \times 74 \\ \hline 372 \\ 6510 \\ \hline 6882 \end{array}$$

6882

$$50^3$$

$$50 \times 50 \times 50 = 125000$$

125,000

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

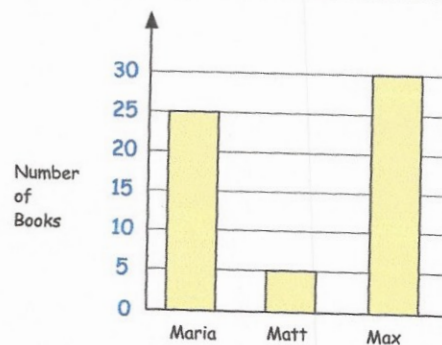
What fraction of the days were rainy?
Simplify your answer.

$$\frac{12}{20} = \frac{3}{5}$$



Work out the mean number of books

$$\begin{aligned} 25 + 5 + 30 &= 60 \\ 60 \div 3 &= \underline{\underline{20}} \end{aligned}$$



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

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

£1.50

$$250\text{g grapes} : £3.20 \div 4 = 80\text{p}$$

$$100\text{g blberry} : £7 \div 10 = 70\text{p}$$

$$80\text{p} + 70\text{p} = £1.50$$

Name: _____

5-a-day

Gold



15th October

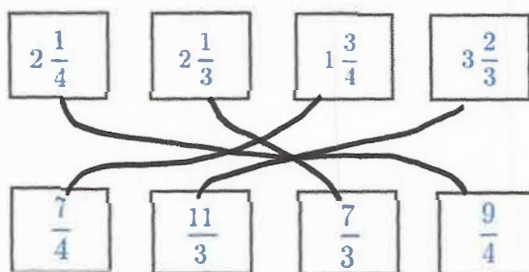
Simplify $\frac{18}{22}$

$\frac{9}{11}$

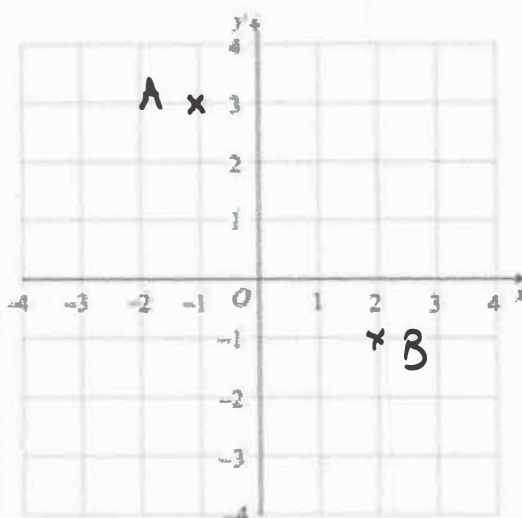
$-12 + 7$

-5

Match up the equivalent mixed numbers and improper fractions.



Plot the point A $(-1, 3)$



Plot the point B $(2, -1)$

Name: Andrew

5-a-day

Gold



16th October

$$\begin{array}{r} 264 \\ 9 \overline{) 23576} \end{array}$$

264

20% of 30

6

Change 780 metres into kilometres

0.78 km

Change 0.02 kilograms to grams

20 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.

So 2p coins make £1

400 2p coins make £8

$$400 \times 7 = 2800 \text{ g}$$

or

$$2.8 \text{ kg}$$



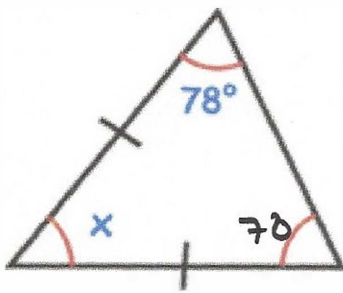
17th October

50% of 80

40

$$\begin{array}{r} 79 \\ 9 \overline{) 7181} \end{array}$$

79



$$78 \times 2 = 156$$

$$180 - 156 = 24$$

Find the size of angle x.

$$x = 24^\circ$$

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?

$$\begin{array}{r} \text{Mother} - £300 \\ \text{brother} - £60 \\ \hline £360 \end{array}$$

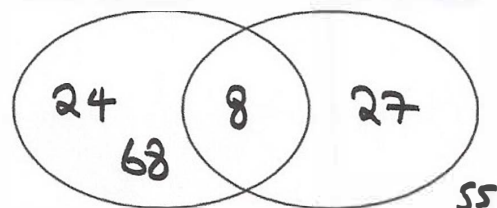
$$600 - 360 = \underline{\underline{£240}}$$

Write each number in the correct position on the diagram.

8 24 27 55 68

Even numbers

Cube numbers



Name: Anwen

5-a-day

Gold



18th October

$0.4 =$

40 %

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

$\frac{9}{10} + \frac{5}{10} = \frac{14}{10} = \frac{7}{5}$

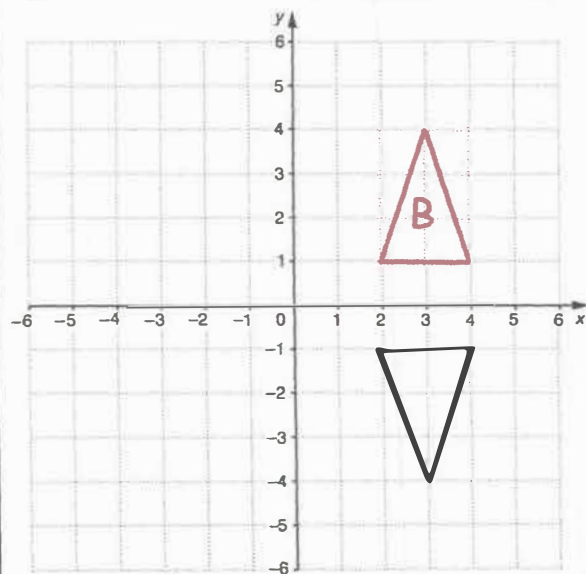
40 %

$\frac{7}{5}$ or $1\frac{2}{5}$

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

36, 72

Reflect triangle B in the x-axis



Name:

Anwen

5-a-day

Gold



19th October

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

$$\frac{3}{8} - \frac{2}{8} =$$

$$\frac{1}{8}$$

$$\begin{array}{r} 117 \\ 8 \overline{) 9136} \end{array}$$

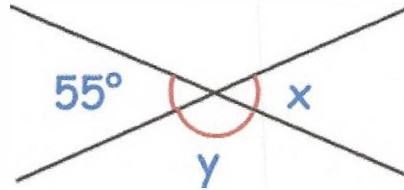
$$117$$

x =

55 °

y =

125 °



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

$$\frac{3}{5}, \frac{6}{10}, \frac{9}{15}, \frac{12}{20} \dots$$

Sophie has £2.12
Orla has 84p

How much money should Sophie give Orla so that they have the same amount of money?

64p

$$2.12 - 0.84 = 1.28$$

$$1.28 \div 2 = 0.64$$



20th October

$$5 \times 5 \times 5 \times 5$$

625

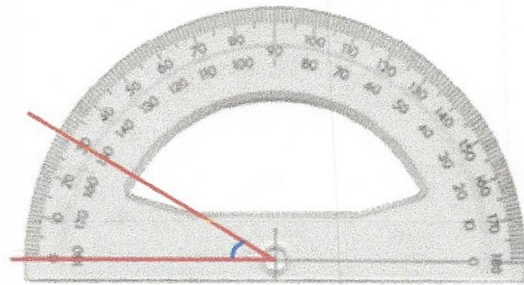
$$1,032 \div 6$$

$$\begin{array}{r} 172 \\ 6 \overline{) 1043.2} \end{array}$$

172

Write down the size of the angle being measured.

30°



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

How much does each person pay?

472

$$\begin{array}{r} 72 \\ 9 \overline{) 648} \end{array}$$



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?

21 22

20p 20p 20p



21st October

0.08×10

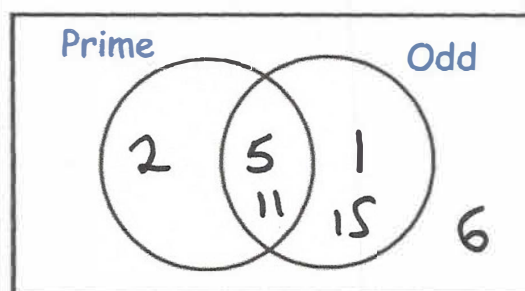
0.3

$$2\frac{1}{2} = \frac{5}{2}$$

S

Write each number in its correct place

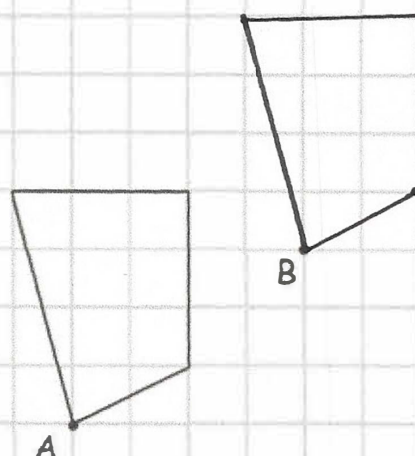
1 2 6 5 11 15



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.



Name: Amey

5-a-day

Gold



22nd October

$$-30 - 55$$

$$-85$$

$$\begin{array}{r} 68 \\ \times 24 \\ \hline 272 \\ 1360 \\ \hline 1632 \end{array}$$

$$1632$$

Write these numbers in order, starting with the smallest.

~~0.304~~ ~~0.41~~ ~~0.088~~ 2.1 ~~0.9~~

0.088, 0.304, 0.41, 0.9, 2.1

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 does each child pay?

$$\begin{array}{r} 2 \times 6.25 = 12.50 \\ + 4.80 \\ \hline 17.30 \end{array}$$

$$17.30 \div 5 = \underline{\underline{3.46}}$$

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

$$\underline{\underline{44.80}}$$

How much is Harry paid?

$$32 \div 5 = \underline{\underline{6.40}} \text{ per hour}$$

$$6.40 \times 7 = \underline{\underline{44.80}}$$



23rd October

75% of 600

450

92

81

Jon and Callum have the same number of coins.

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

How much money does Callum have?

$$9.40 \div 0.2 = 47 \text{ 20p coins}$$

$$47 \times 0.5 = \underline{\underline{\pounds 23.50}}$$

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? 9

9.

10, 10, 10, 6

total = 36

$$\frac{36}{4} = 9$$

Saffron costs £6.18 per gram.

What is the cost of a tenth a kilogram of saffron

618

$$1 \text{ gram} = \frac{1}{1000} \text{ kg}$$

$$1 \text{ corgon} = \frac{1}{10} \text{ key}$$

$$6.18 \times 100 = 618$$



Name: Amey

5-a-day

Gold



24th October

$$\begin{array}{r} 105 \\ \times 11 \\ \hline 105 \\ 1050 \\ \hline 1155 \end{array}$$

1155

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

$$\frac{5}{15} + \frac{2}{15} =$$

 $\frac{7}{15}$

List the first five prime numbers

2, 3, 5, 7, 11

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?

£7.20

$$20\% \text{ of } £9 = £1.80$$

$$9 - 1.80 = £7.20$$

In Victoria's class, there are 20 students

Explain why Victoria must be wrong

Because 7 doesn't fit exactly into 20

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



Name: Answer

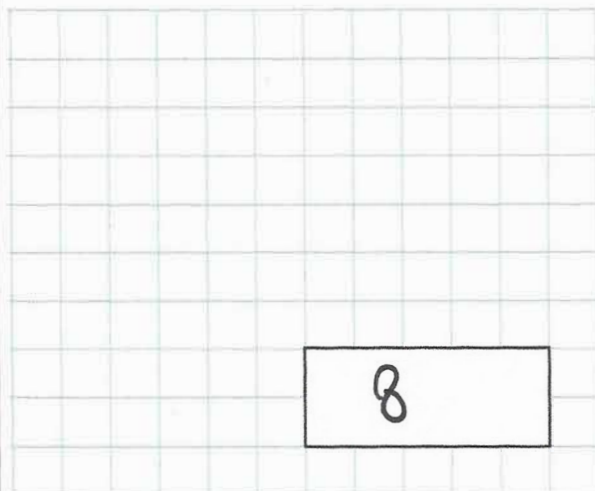
5-a-day

Gold

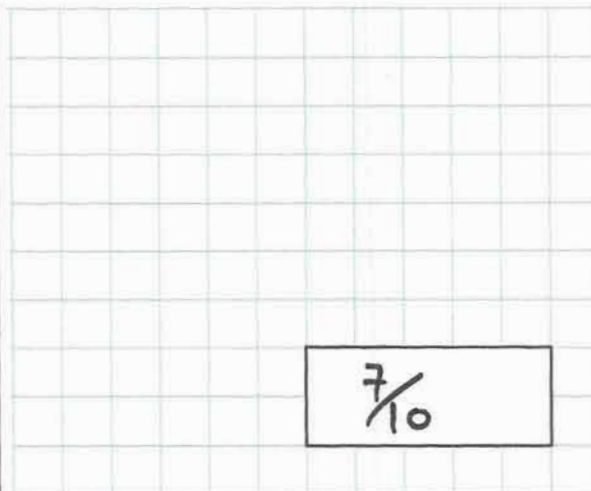


25th October

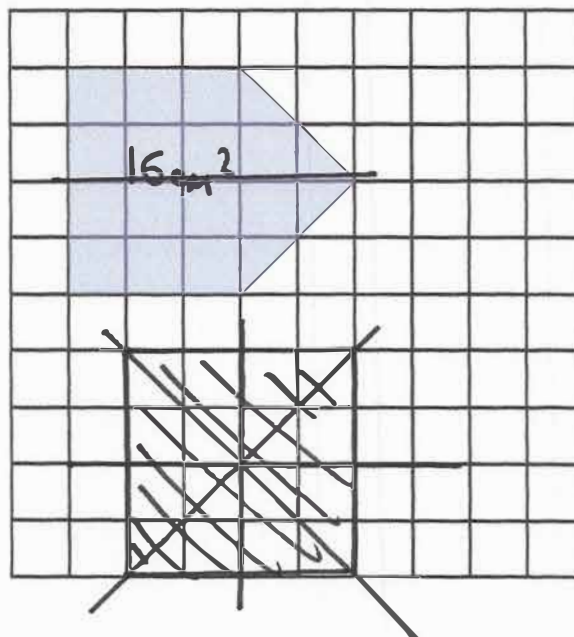
$$2^3$$



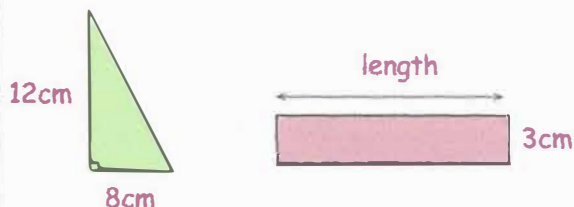
$$0.7 = \frac{\square}{\square}$$



On the grid, draw a **square** which has the **same area** as the pentagon



Draw any lines of symmetry on the **pentagon** and the **square**



The triangle and rectangle have the same area

Work out the length of the rectangle.

$$12 \times 8 \div 2 = 48 \text{ cm}^2$$

$$48 \div 3 = \underline{16 \text{ cm}}$$

Name:

Anwar

5-a-day

Gold



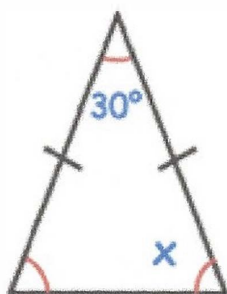
26th October

$$\begin{array}{r} 956 \\ 7 \overline{) 66942} \end{array}$$

956

$$\frac{1}{4} = \boxed{25\%}$$

25 %



Calculate the size of angle x

$$180 - 30 = 150$$

$$150 \div 2 = 75$$

$$\underline{x = 75^\circ}$$

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?

$$\frac{1}{10} + \frac{3}{5} = \frac{7}{10}$$

$\frac{3}{10}$ are blue

Write the number 315 in Roman numerals

CCCXV

Name: Amey

5-a-day

Gold



27th October

$$\begin{array}{r} \times 14 \\ 2 \overline{) 28} \\ \underline{11} \end{array} = \boxed{}$$

$$11 \times 14 = 154$$

154

$$\begin{array}{r} 54 \\ 20 \overline{) 1080} \\ \underline{100} \\ 80 \\ \underline{80} \\ 0 \end{array}$$

54

What is the perimeter of this rectangle?

$$\begin{aligned} 5.7 + 5.7 + 3.46 + 3.46 \\ = \underline{18.32 \text{ cm}} \end{aligned}$$

5.7 cm

3.46 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?

$$\begin{aligned} 1\frac{3}{4} \text{ l} &= 1750 \text{ ml} \\ 2.2 \text{ l} &= 2200 \text{ ml} \\ \hline &450 \text{ ml} \end{aligned}$$

Name: Answer

5-a-day

Gold



29th October

$$\begin{array}{r} 39 \\ \times 38 \\ \hline 312 \\ 1170 \\ \hline 1482 \end{array}$$

1482

$$25 \times 8 \times 7$$

$$25 \times 8 = 200$$

$$200 \times 7 = 1400$$

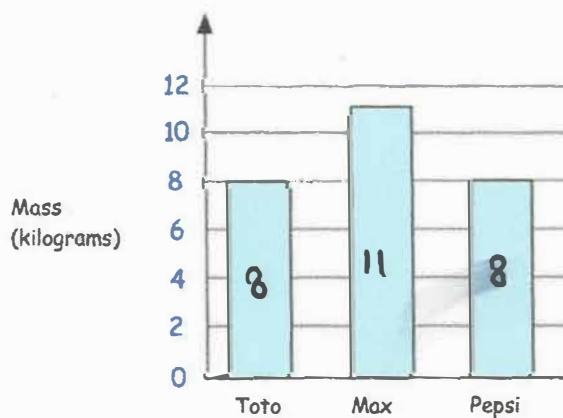
1400

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

1,304,029

$$\begin{array}{r} 538\,597 \\ + 765\,432 \\ \hline 1\,304\,029 \end{array}$$

Work out 25% of Toto's mass.

2kg

Work out the mean mass of the puppies.

$$8 + 11 + 8 = 27$$

$$27 \div 3 = 9 \text{ kg}$$



30th October

$$14^2$$

196

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

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

 $\frac{1}{16}$

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.

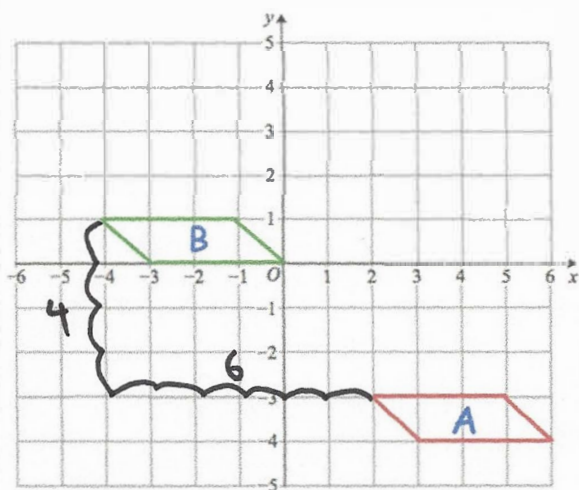
£6.76

Work out how much change Rhys should receive.

total cost £13.24

£20 - £13.24 = £6.76

A parallelogram is translated from position A to position B



Complete the sentence

The parallelogram has moved

6

squares to the left

and

4

squares up

Name: Amber

5-a-day

Gold



31st October

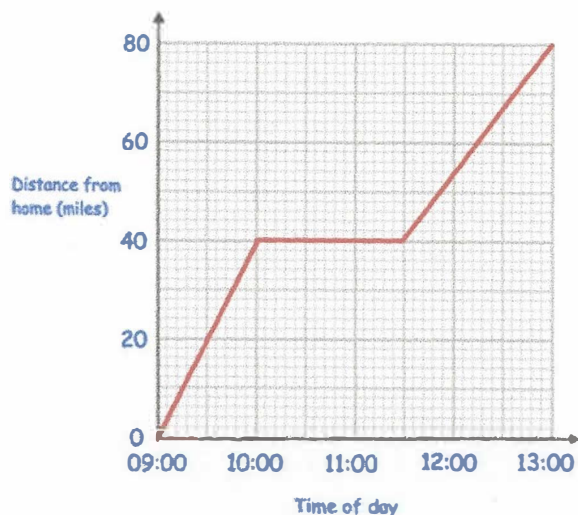
$$\begin{array}{r}
 64 \\
 \times 79 \\
 \hline
 576 \\
 4480 \\
 \hline
 5056
 \end{array}$$

5056

Simplify $6 \div 3 \rightarrow 2$
 $9 \div 3 \rightarrow 3$

 $\frac{2}{3}$

Natalie travels from her home to London.



How far was Natalie from home when she visited Edward?

40 miles

How long did Natalie stop for?

1½ h (1h 30 min)

She stopped and visited her friend Edward on the way.

Jack buys three pens.

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

How much would two pens cost?

£4.34

$$£20 - £13.49 = £6.51$$

$$1 \text{ pen costs } £6.51 \div 3 = £2.17$$

$$\therefore 2 \text{ pens cost } \underline{£4.34}$$