

Name: Answer

5-a-day

Gold



1st June

$$6^2$$

$$\frac{3}{4} - \frac{5}{8}$$

$$= \frac{6}{8} - \frac{5}{8}$$

36

$\frac{1}{8}$

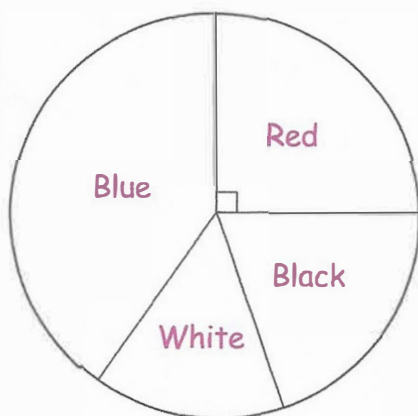
Write the missing values

$$\frac{3}{5} = \frac{9}{15} = \frac{18}{30}$$

(Handwritten annotations: 3 to 9 is x3, 5 to 15 is x3, 9 to 18 is x2, 15 to 30 is x2)

There are 40 cars in a car park.

The chart shows information about their colours



Tick the statements that are **true**

There are more red than white cars ☒

The total number of black and white cars is 20 ☐

25% of the cars are red ☒

There are less than 20 blue cars ☒

Name: Answers

Primary 5-a-day

Gold



2nd June

$$175 - 210$$

- 35

$$79 \times 13$$

$$\begin{array}{r} 79 \\ \times 13 \\ \hline 237 \\ 790 \\ \hline 1027 \end{array}$$

1027

Raheem is putting 50p coins into bags.

Each bag holds 20 coins.

He has 645 coins

How many bags can Raheem fill?

$$645 \div 20 = 32 \text{ r } 5$$

32 full bags

How many coins will be left over?

5

How much money does he have in total?

$$645 \times 50p = \pounds 322.50$$

Two angles in a triangle are 80° and 50°

Is the triangle isosceles? YES NO

Explain your answer

The 3rd angle must be 50°
so it has 2 equal angles

Name: Answers

Primary 5-a-day

Gold



3rd June

$$1,925 \div 7$$

$$\begin{array}{r} 275 \\ 7 \overline{) 1925} \\ \underline{14} \\ 52 \\ \underline{49} \\ 35 \\ \underline{35} \\ 0 \end{array}$$

275

10% of 60,500

6050

A house is 12 metres wide and 8 metres tall.



How wide is her model?

24cm

How many centimetres are in 12 metres?

1200cm

Kirsty makes a scale model of the house.

Her model is 16 centimetres tall

Here is a number written in Roman numerals

CCCXI

Write the number in figures

311

Name: Answers

Primary 5-a-day

Gold



4th June

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

$$\frac{9}{10}$$

$$75,390 + 16,998$$

$$\begin{array}{r} 75390 \\ + 16998 \\ \hline 92388 \end{array}$$

$$92388$$

County	Area
Yorkshire	15,000 km ²
Huntingdonshire	1,000 km ²

How many times larger is the area of Yorkshire than the area of Huntingdonshire?

15

In June, Spencer collects 3, 4 or 5 strawberries from his greenhouse.

In the first 17 days, Spencer collects 76 strawberries.

What is the **greatest** number of strawberries that Spencer can collect in June?

June = 30 days

$$30 - 17 = 13$$

$$13 \times 5 = 65$$

$$65 + 76 = \underline{141}$$

Find three different prime numbers with a sum of 40.

$$\boxed{2} + \boxed{17} + \boxed{21} = 40$$

prime number prime number prime number

Name: Answer

Primary 5-a-day

Gold



5th June

$$1.04 \times 1,000$$

1040

$$\begin{array}{r} 1099 \\ 8 \overline{) 8792} \end{array}$$

1099

Edward has drawn a 3-D shape.

His shape has 6 vertices.

It has 9 edges.

It has 5 faces.

What 3-D shape has Edward drawn?

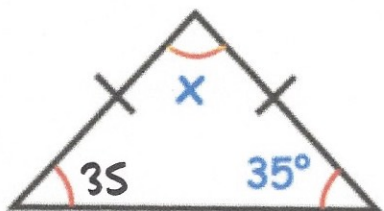
Triangular prism

Martin finished a 10 kilometre race in 47 minutes 13 seconds.

Dean finished 9 minutes 54 seconds **after** Martin.

How long did Dean take?

57 min 7 sec



$$x = 180 - 70 = 110$$

Calculate the size of angle x

110°

Name: Answer

Primary 5-a-day

Gold



6th June

Simplify $\frac{16}{28}$

$$= \frac{8}{14} = \frac{4}{7}$$

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

8^3

$$8 \times 8 = 64$$

$$\begin{array}{r} 64 \\ \times 8 \\ \hline 512 \end{array}$$

$$512$$

Change 0.43 kilograms to grams

430g

Emily buys a car for £9,000

She pays a 25% deposit for the car.

She then pays the rest of the cost in 10 equal payments.

How much was each payment? $\pounds 675$

$$25\% = 2250$$

$$\text{pays } 9000 - 2250 = 6750$$

$$6750 \div 10 = 675$$

Measure the size of this angle

62°



Name: Answers

Primary 5-a-day

Gold



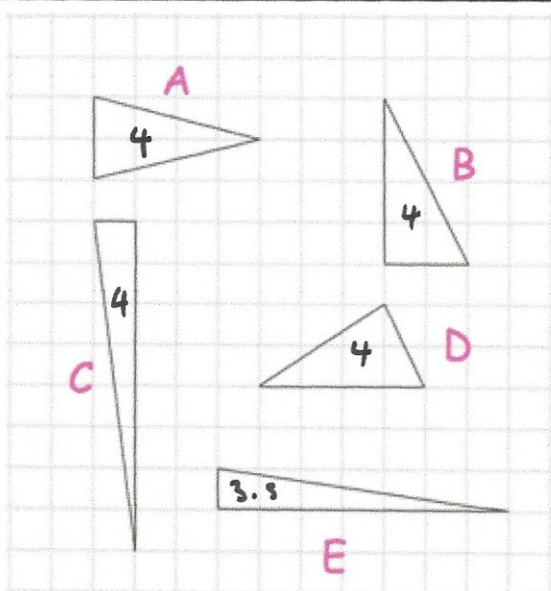
7th June

$$\frac{\square}{9} = \frac{27}{63}$$

$$1,904 \times 6$$

$$\begin{array}{r} 1904 \\ \times 6 \\ \hline 11424 \end{array}$$

11424



Four triangles have the same area.

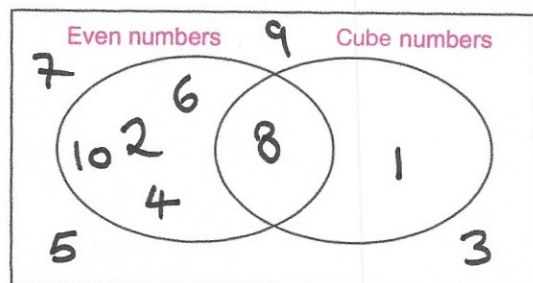
Which triangle has a different area?

E

Find the area of triangle C

4

Write each number in the correct position on the diagram



Name: Answer

Primary 5-a-day

Gold



8th June

25% of 308

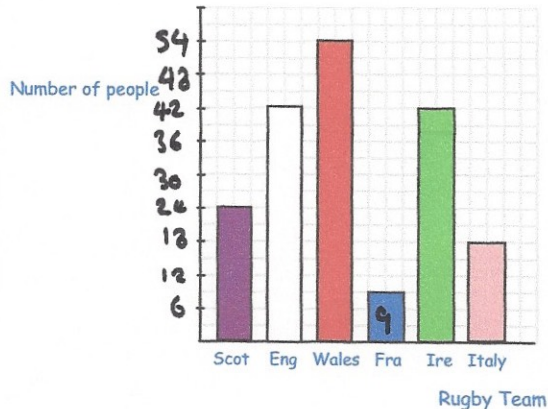
77

$$\frac{1}{4} + \frac{7}{12}$$

$$\frac{3}{12} + \frac{7}{12} = \frac{10}{12} = \frac{5}{6}$$

$\frac{5}{6}$

Jonathan asked his friends which country they support in rugby. He has shown the results in a bar chart.



Jonathan has drawn the bar chart accurately, but he has forgotten to label the number of people.

Find the missing numbers

Rugby Team	Number of people
Scotland	24
England	42
Wales	54
France	9
Ireland	42
Italy	18

Frank thinks of a **whole** number.

He multiplies it by 6.

He rounds his answer to the nearest 10

The answer is 70

Write all the possible numbers that Frank could have started with

11, 12

Name: Answers

Primary 5-a-day

Gold



9th June

13×12

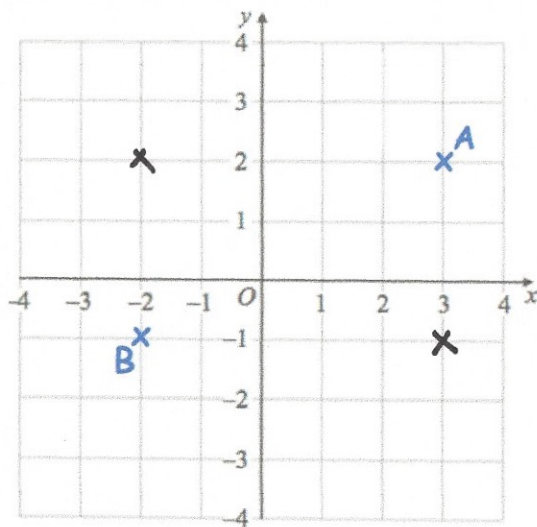
$$\begin{array}{r} 12 \times 12 = 144 \\ + 12 \\ \hline 156 \end{array}$$

156

20% of 120

$$\begin{array}{r} 10\% - 12 \\ 20\% - 24 \end{array}$$

24



Write down the coordinates of point A.

(3, 2)

Dani uses coordinates A and B as two of the vertices of a right angled triangle.

What are the coordinates of the missing vertex?

(3, -1) or (-2, 2)

Here are four numbers in Roman numerals

XC LXXV CII LVIII
90 75 102 58

Write the numbers in order, starting with the **smallest**.

LVIII
LXXV
XC
CII

Name: Answer

Primary 5-a-day

Gold



11th June

$$0.6 = \frac{6}{10}$$

$$\frac{6}{10} = \frac{3}{5}$$

$$1,040 \div 40$$

$$\begin{array}{r} 26 \\ 40 \overline{) 1040} \\ \underline{80} \\ 240 \\ \underline{240} \\ 0 \end{array}$$

26

There are 1,596 fans at a football match.

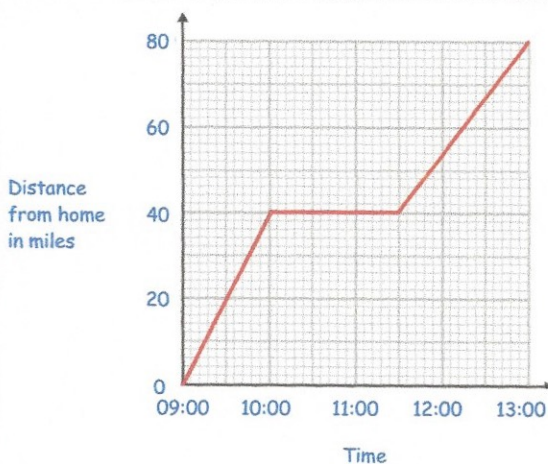
$\frac{3}{7}$ of the fans are children.

How many adults attended the football match?

912

$\frac{4}{7}$ are adults

$$1596 \div 7 \times 4 = 912$$



Natalie travels from her home to London. She stopped and visited her friend Edward on the way.

How far was Natalie from home when she visited Edward?

40 miles

How long did Natalie stop for?

1h 30min

Name: Answer

Primary 5-a-day

Gold



12th June

$$\square^3 = 64$$

4

$$\frac{19}{20} - \frac{7}{10}$$

$$\frac{19}{20} - \frac{14}{20} = \frac{5}{20} = \frac{1}{4}$$

$\frac{1}{4}$

A box contains red, yellow and blue sweets.

In total there are 80 sweets.

10% of the sweets are yellow.

There are 6 more red sweets than yellow sweets.

$$\frac{29}{40}$$

What fraction of the sweets are blue?

8 are yellow

14 are red

$$80 - 22 = 58 \text{ blue}$$

$$\frac{58}{80} = \frac{29}{40}$$

Shape C is translated **1 right** and **5 up**

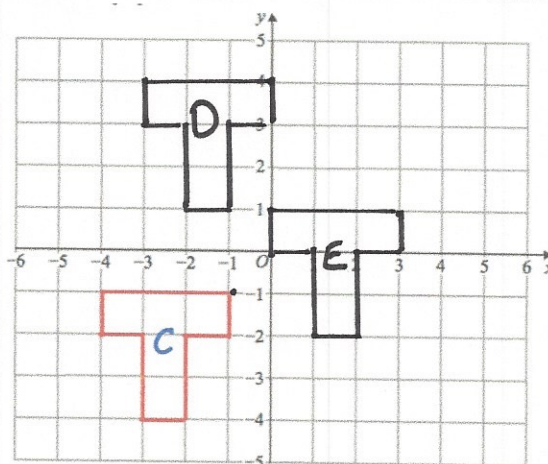
Draw the shape in its new position.

Label the new shape, D.

Shape D is translated **3 right** and **3 down**.

Draw the shape in its new position.

Label the new shape E.



Name: Answers

Primary 5-a-day

Gold



13th June

$$30^2$$

900

$$\begin{array}{r} 152 \\ \times 34 \\ \hline 608 \\ 4560 \\ \hline 5168 \end{array}$$

5168

Write these numbers in order, starting with the **smallest**

~~0.78~~ ~~0.506~~ ~~0.64~~ ~~0.097~~ ~~1.001~~

0.097
0.506
0.64
0.78
1.001

Mr Smith puts up 7 shelves in his garage. Each shelf is 174cm long.

Work out the total length of wood Mr Smith needs for the 7 shelves.

Give your answer in metres.

12.18m

$$\begin{array}{r} 174 \\ \times 7 \\ \hline 1218 \text{ cm} \end{array}$$

A snowboarder completes 4 somersaults in a jump.

How many degrees does she turn through in the jump?

1440°



$$4 \times 360 = 1440^\circ$$

Name: Answer

Primary 5-a-day

Gold



14th June

Simplify $\frac{3}{15}$

$\frac{1}{5}$

$$\begin{array}{r} 164 \\ 25 \overline{) 4100} \end{array}$$

164

List the factors of 32.

1, 2, 4, 8, 16, 32

A number in Roman numerals is LV

Write LV in figures

55

3 students sit a test.
The total for the test is 80 marks.

Emily got 60% of the 80 marks = 48

Rebecca got $\frac{5}{8}$ of the 80 marks = 50

Roisin got 57 out of 80 marks = 57

Put the students in order, starting with who scored the most marks

1) Roisin

2) Rebecca

3) Emily

Name: Answer

Primary 5-a-day

Gold



15th June

$$25 \times 14 \times 5$$

$$14 \times 5 = 70$$
$$\begin{array}{r} 25 \\ \times 70 \\ \hline 1750 \end{array}$$

1750

$$75\% \text{ of } 608$$

$$608 \div 4 = 152$$
$$152 \times 3 = 456$$

456

30% of the children in a class are left-handed.

There are 20 students in the class.

How many children are right-handed?

14

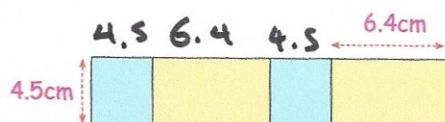
$$30\% \text{ of } 20 = 6$$

14 are r-h

Write down the first 3 prime numbers

2, 3, 5

Here is a shape made from two identical squares and two identical rectangles.



Work out the perimeter

52.6 cm

Name: Answers

Primary 5-a-day

Gold



16th June

$$80 \div 1,000$$

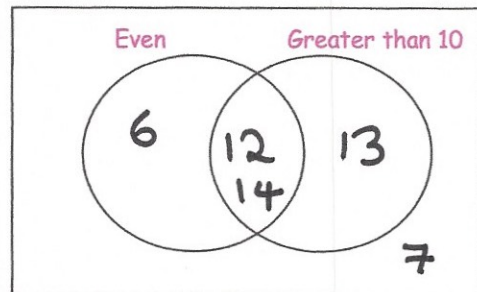
0.08

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

$2\frac{1}{2}$

Put these numbers in the correct place on the diagram

6 7 12 13 14



Circle two different numbers that multiply together to make one million.

(100) 1,000 (10,000) 100,000

Caleb thinks of a number

He divides it 4
Then he adds 15.

His answer is the same as his starting number.

What number did Caleb start with?



20

Name: Answers

Primary 5-a-day

Gold



17th June

$$\frac{3}{4} = \frac{39}{\square}$$

52

$$6.35 + 2.915 + 5.2$$

$$\begin{array}{r} 6.35 \\ 2.915 \\ 5.2 \\ \hline 14.465 \end{array}$$

14.465

50% of a number is 30

What is the number?

60

Almonds cost £1.20 per 100 grams

What is the cost of 250 grams of almonds?

£3

$$\begin{array}{r} £2.40 \text{ per } 200\text{g} \\ 60\text{p per } 50\text{g} \\ \hline £3.00 \end{array}$$

Cafe Red sells 3 sandwiches for £5.28
Sandwich World sells 4 sandwiches for £7.00

Which shop is better value for money?

Sandwich World



$$\begin{array}{l} 5.28 \div 3 = £1.76 \\ 7 \div 4 = £1.75 \end{array}$$

Name: Answers

Primary 5-a-day

Gold



18th June

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

$$85 \times 41$$

$$\begin{array}{r} 85 \\ \times 41 \\ \hline 85 \\ 3400 \\ \hline 3485 \end{array}$$

$$\boxed{25\%}$$

$$\boxed{3485}$$

Matt asked 28 people to see how they travelled to work.

Matt says, "exactly 10% of the people in the survey said they travelled by train."

Explain why Matt is **wrong**

10% of 28 is 2.8
and you can't have
fractions of people

Write these numbers in order, starting with the smallest.

~~9.21~~ ~~9.091~~ ~~9.119~~ ~~9.2~~ ~~9.28~~

9.091
9.119
9.2
9.21
9.29

Three whole numbers have a mean of 30.

All the numbers are different.

Write down three possible numbers

(any numbers totalling 90)

$$\boxed{25}$$

$$\boxed{32}$$

$$\boxed{33}$$

Name: Answers

Primary 5-a-day

Gold



19th June

$$\begin{array}{r} 675 \\ 6 \overline{) 40450} \end{array}$$

675

$$\frac{7}{20} + \frac{1}{5}$$

$$\frac{7}{20} + \frac{4}{20} = \frac{11}{20}$$

$\frac{11}{20}$

Michael and Rosie each have a bottle of water.

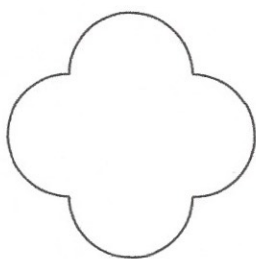
Michael's bottle contains $1\frac{3}{4}$ litres

Rosie's bottle contains 2.2 litres

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

$$\begin{array}{r} 1\frac{3}{4} = 1750 \text{ mL} \\ 2.2 = 2200 \text{ mL} \\ \hline 450 \text{ mL} \end{array}$$

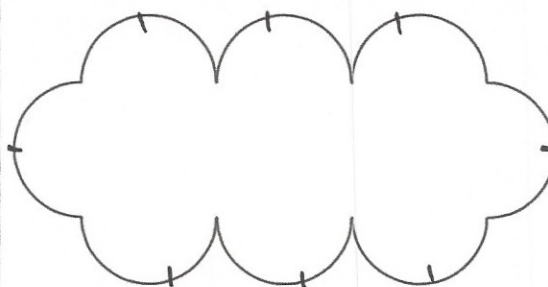
This shape is made from four identical curves



The perimeter of the shape is 32 centimetres.

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

each curve $32 \div 4 = 8$



What is the perimeter of the new shape?

$$8 \times 8 = \underline{64 \text{ cm}}$$

Name: Answer

Primary 5-a-day

Gold



20th June

$$8,900 + 52,800$$

$$\begin{array}{r} 52800 \\ + 8900 \\ \hline 61700 \end{array}$$

61700

$$\frac{3}{\begin{array}{c} \square \\ \square \\ \square \end{array}} = \frac{36}{96}$$

8

Here are 6 tiles

9	7
4	1

6	9
3	8

7	0
2	5

8	4
3	7

5	2
4	8

2	5
1	6

The tiles are placed on the grid below so that the column and row totals add up to the numbers shown.

The two shaded tiles have been placed on the grid for you.
Place the other four tiles onto the grid.

						total
5	2	7	0	9	7	30
4	8	2	5	4	1	24
8	9	8	4	2	5	36
3	8	3	7	1	6	28
total	20	27	20	16	19	

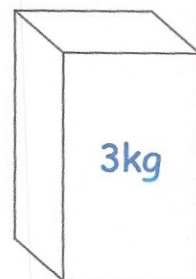
A box contains 3kg of rice = ~~3000g~~

Laura uses 75 grams of rice for each meal.
She uses all the rice.

How many meals did Laura make?

40

$$\begin{array}{l} 3000 \div 75 \\ = 40 \end{array}$$



Name: Answers

Primary 5-a-day

Gold

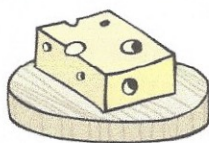


21st June

$$160 \times 1,000$$

160,000

$$\begin{array}{r} 340 \\ \times 62 \\ \hline 680 \\ 20400 \\ \hline 21080 \end{array}$$

21080

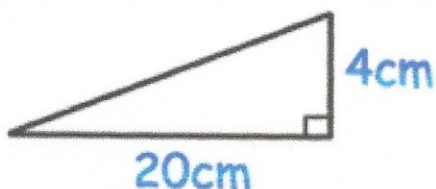
Cheese
35p per 100g

Cheryl buys some cheese for £1.05

How many grams of cheese does she get?

$$105 \div 35 = 3$$

$$3 \times 100g = \underline{300g}$$



Find the area of this triangle

$$4 \times 20 \div 2 = \underline{40cm^2}$$

Andrew has £80.20
Beth has £7.40

How much must Andrew give Beth so that they each end up with the same amount?

$$\underline{£36.40}$$

$$\text{Total} = £87.60$$

$$\text{Half} = £43.80$$

$$43.80 - 7.40 = £36.40$$

Name: Answers

Primary 5-a-day

Gold



22nd June

$$\frac{28}{5} = 5 \frac{\square}{5}$$

3

$$44 \times 19 = 4 \times \square$$

$$\begin{array}{r} 19 \\ \times 11 \\ \hline 19 \\ 190 \\ \hline 209 \end{array}$$

209

Marcus has five coins.

Three of the coins add to £70p

Three of the coins add up to £2.20

All five coins add up to £3.70

What are the coins that Marcus has?

£2

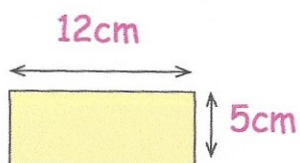
£1

10p

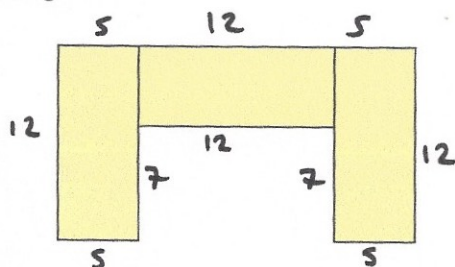
50p

10p

Zara has some identical rectangles.



She makes this shape using three of the rectangles



What is the perimeter of Zara's shape?

82cm

Name: Answers

Primary 5-a-day

Gold



23rd June

10% of 70

Handwritten answer: 7

260.3 - 118.49

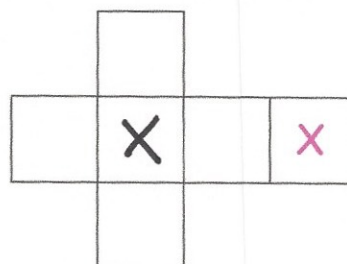
Handwritten calculation:

$$\begin{array}{r} 260.30 \\ - 118.49 \\ \hline 141.81 \end{array}$$

Handwritten answer: 141.81

Here is a net of a cube.

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



Here is Jessica's timetable on a Wednesday

maths	break	science	English	lunch	PE
9:00	9:50	10:00	11:05	12:10	1:05
am				pm	2:20

How long does the science lesson last?

1h 5mins
(65 mins)

Jessica leaves school early to go to the doctor. She leaves 20 minutes before the end of her English lesson.

What time did Jessica leave?

11.50am

Name: Answers

Primary 5-a-day

Gold



24th June

30% of 90

$$10\% = 9$$
$$30\% = 9 \times 3 = 27$$

27

$$\frac{7}{10} - \frac{1}{2}$$

$$\frac{7}{10} - \frac{5}{10} = \frac{2}{10}$$

 $\frac{1}{5}$ Write three factors of 30 that are **not** factors of 152630

A box of staples contains 1,000 staples.

A secretary wants to order three million staples.

How many boxes of staples should they order?

3000

$$3,000,000 \div 1,000$$
$$= 3,000$$

Find the mean of these numbers

17 18 15 22 33

21

$$\text{total} = 105$$

$$\frac{105}{5} = 21$$

Name: Answers

Primary 5-a-day

Gold



25th June

$$-25 + 33$$

8

$$1.4 - 0.522$$

$$\begin{array}{r} 1.400 \\ - 0.522 \\ \hline 0.878 \end{array}$$

0.878

A toad croaks every 10 seconds.
A frog croaks every 18 seconds.
They both croak at the same time.

After how many seconds will they next both croak at the same time?

90 seconds

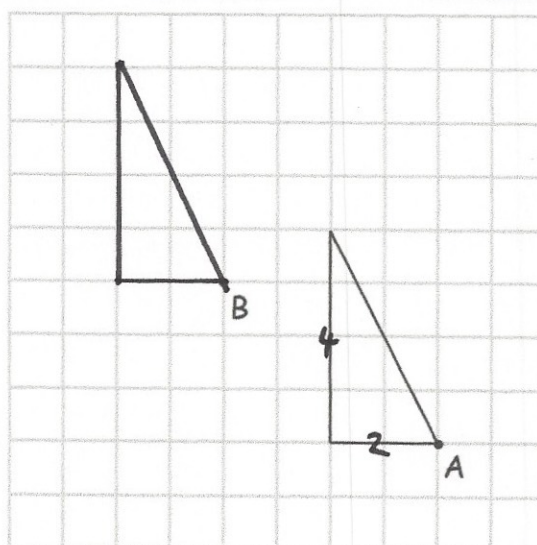


10, 20, 30, 40, . . . 90
18, 36, 54, 72, 90

Here is a triangle on a grid.

The triangle is translated so that point A moves to point B.

Draw the triangle in its new position.



Find the area of each triangle.

$$2 \times 4 \div 2 = \underline{4 \text{ cm}^2}$$



26th June

Simplify $\frac{8}{30}$

$$\frac{4}{15}$$
 $3948 \div 6$

$$\begin{array}{r} 658 \\ 6 \overline{) 3948} \end{array}$$

658

Find the total number of people living in these four cities.

1,854,833

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

In a bag there are red, green, pink and white beads.

Altogether there are 80 beads.

There are 23 red beads.

There are an equal number of green, pink and white beads.

What fraction of the beads are white?

$$80 - 23 = 57$$

$$57 \div 3 = 19$$

$$\frac{19}{80} \text{ are white}$$
Gareth chooses a **square number**

He rounds it to the nearest hundred.

His answer is 200.

Write a possible square number that Gareth could have chosen.

$$13^2 = 169$$

$$14^2 = 196$$

$$15^2 = 225$$

$$16^2 = 256$$

$$\underline{169, 196, 225}$$

Name: Answers

Primary 5-a-day

Gold



27th June

$$7^2$$

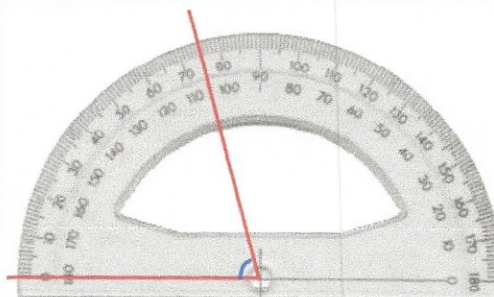
49

$$5,000 \div 20$$

250

What size is the angle being measured?

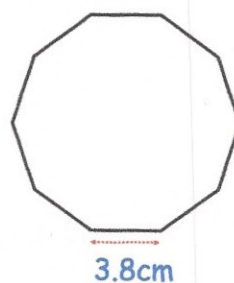
75°



Find the perimeter of this regular decagon

$$3.8 \times 10$$

$$= 38\text{cm}$$



Complete this table

Fraction	Decimal	Percentage
$\frac{1}{2}$	0.5	50%
$\frac{3}{4}$	0.75	75%
$\frac{1}{5}$	0.2	20%
$\frac{3}{10}$	0.3	30%

Name: Anwen

Primary 5-a-day

Gold



28th June

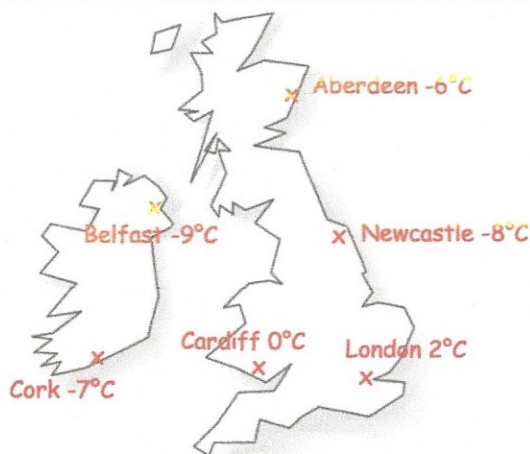
$$0.2 = \frac{1}{5}$$

$$\frac{1}{5}$$

$$285 \times 11$$

$$\begin{array}{r} 285 \\ \times 11 \\ \hline 285 \\ 2850 \\ \hline 3135 \end{array}$$

$$3135$$



Arrange the cities in order of temperature, starting with the coldest.

Belfast
Newcastle
Cork
Aberdeen
London, Cardiff

The temperature in Berlin is 5°C colder than Newcastle.

What is the temperature in Berlin?

$$-13^{\circ}\text{C}$$

Timothy orders the following items at a restaurant.

- 4 pizzas at £4.49 each.
- 2 garlic breads at £3.10 each.
- 2 orange juices at £1.19 each.
- 2 sparkling water at 99p each.

Complete the bill

Corbett Cuisine		
	£	pence
4 pizzas at £4.49	17	96
2 garlic bread at £3.10	6	20
2 orange juice at £1.19	2	38
2 sparkling water at 99p	1	98
Total	28	52

Name: Answers

Primary 5-a-day

Gold



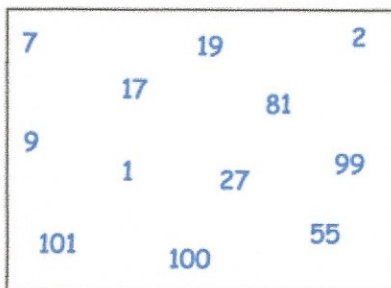
29th June

$$9\frac{2}{3} = \frac{\boxed{}}{3}$$

29

$$\begin{array}{r} 46 \\ \times 37 \\ \hline 322 \\ 1380 \\ \hline 1702 \end{array}$$

1702



From the box choose the **smallest** prime number

2

From the box choose the **largest** prime number

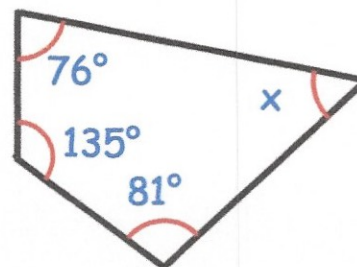
101

From the box write down **three** numbers that are **not prime**

any of 1, 9, 27, 55, 81, 99, 100

Find the size of angle x

68°



Name: Answer

Primary 5-a-day

Gold



30th June

$$5^3$$

$$125$$

$$\frac{13}{30} + \frac{1}{2}$$

$$\frac{13}{30} + \frac{15}{30} = \frac{28}{30}$$

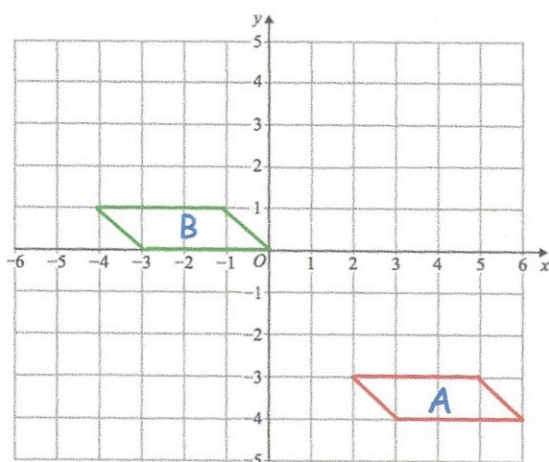
$$\frac{14}{15}$$

Find the next two numbers in this sequence.

$$\begin{array}{ccc} 99,810 & 99,870 & 99,930 \\ \downarrow +60 & \downarrow +60 & \end{array}$$

$$\underline{99,990}, \underline{100,050}$$

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: Answers

5-a-day

Gold



2nd June

$175 - 210$

-35

79×13

$$\begin{array}{r} 79 \\ \times 13 \\ \hline 237 \\ 790 \\ \hline 1027 \end{array}$$

1027

Raheem is putting 50p coins into bags.

Each bag holds 20 coins.

He has 645 coins

How many bags can Raheem fill?

$645 \div 20 = 32 \text{ r } 5$

32 full bags

How many coins will be left over?

5

How much money does he have in total?

$$645 \times 50\text{p} \\ = \pounds 322.50$$

Two angles in a triangle are 80° and 50° Is the triangle isosceles? YES NO

Explain your answer

The 3rd angle must be 50°
so it has 2 equal angles

Name: Answers

5-a-day

Gold



3rd June

$$1,925 \div 7$$

$$\begin{array}{r} 275 \\ 7 \overline{) 1925} \end{array}$$

275

10% of 60,500

6050

A house is 12 metres wide and 8 metres tall.



Kirsty makes a scale model of the house.

Her model is 16 centimetres tall

How wide is her model?

24cm

How many centimetres are in 12 metres?

1200cm

Here is a number written in Roman numerals

CCCXI

Write the number in figures

311

Name: Answers

5-a-day

Gold



4th June

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

$$\frac{9}{10}$$

$$75,390 + 16,998$$

$$\begin{array}{r} 75390 \\ + 16998 \\ \hline 92388 \end{array}$$

$$92388$$

County	Area
Yorkshire	15,000 km ²
Huntingdonshire	1,000 km ²

How many times larger is the area of Yorkshire than the area of Huntingdonshire?

15

In June, Spencer collects 3, 4 or 5 strawberries from his greenhouse.

In the first 17 days, Spencer collects 76 strawberries.

What is the **greatest** number of strawberries that Spencer can collect in June?

$$\text{June} = 30 \text{ days}$$

$$30 - 17 = 13$$

$$13 \times 5 = 65$$

$$65 + 76 = \underline{141}$$

Find three different prime numbers with a sum of 40.

$$\boxed{2} + \boxed{17} + \boxed{21} = 40$$

prime number prime number prime number

Name: Answer

5-a-day

Gold



5th June

$$1.04 \times 1,000$$

1040

$$\begin{array}{r} 1099 \\ 8 \overline{) 8792} \end{array}$$

1099

Edward has drawn a 3-D shape.

His shape has 6 vertices.

It has 9 edges.

It has 5 faces.

What 3-D shape has Edward drawn?

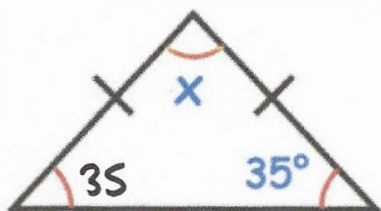
Triangular prism

Martin finished a 10 kilometre race in 47 minutes 13 seconds.

Dean finished 9 minutes 54 seconds **after** Martin.

How long did Dean take?

57 min 7 sec



$$x = 180 - 70 = 110$$

Calculate the size of angle x

110°

Name: Anwen

5-a-day

Gold



6th June

Simplify $\frac{16}{28}$

$$= \frac{8}{14} = \frac{4}{7}$$

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

8^3

$$8 \times 8 = 64$$

$$\begin{array}{r} 64 \\ \times 8 \\ \hline 512 \end{array}$$

$$512$$

Change 0.43 kilograms to grams

430g

Emily buys a car for £9,000

She pays a 25% deposit for the car.

She then pays the rest of the cost in 10 equal payments.

How much was each payment? $\pounds 675$

$$25\% = 2250$$

$$\text{pays } 9000 - 2250 = 6750$$

$$6750 \div 10 = 675$$

Measure the size of this angle

62°



Name: Answers

5-a-day

Gold



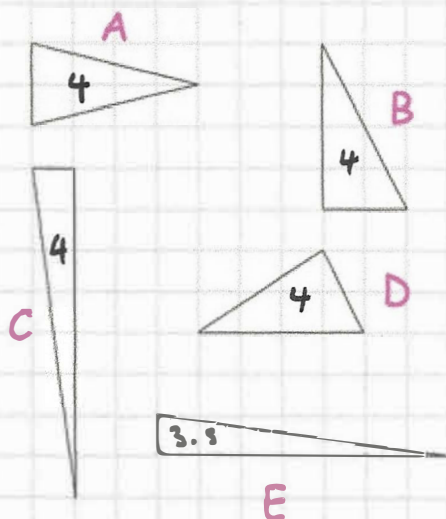
7th June

$$\frac{\square}{9} = \frac{27}{63}$$

$$1,904 \times 6$$

$$\begin{array}{r} 1904 \\ \times 6 \\ \hline 11424 \end{array}$$

11424



Four triangles have the same area.

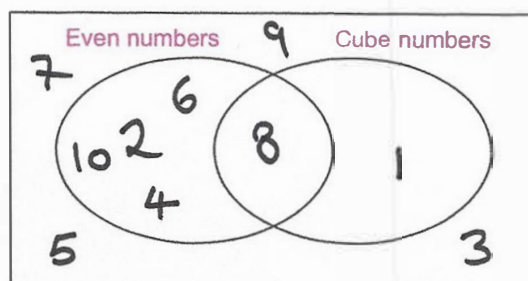
Which triangle has a different area?

E

Find the area of triangle C

4

Write each number in the correct position on the diagram



Name: Answer

5-a-day

Gold



8th June

25% of 308

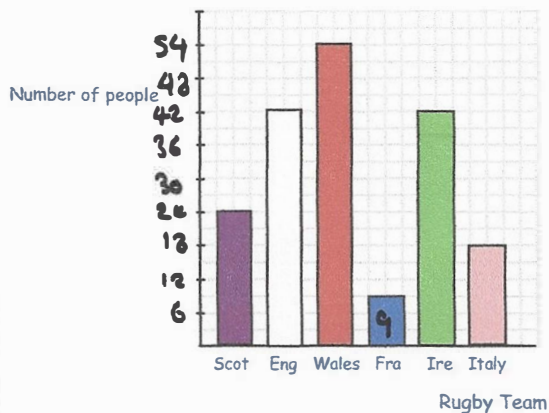
$$\frac{1}{4} + \frac{7}{12}$$

$$\frac{3}{12} + \frac{7}{12} = \frac{10}{12} = \frac{5}{6}$$

77

$\frac{5}{6}$

Jonathan asked his friends which country they support in rugby. He has shown the results in a bar chart.



Jonathan has drawn the bar chart accurately, but he has forgotten to label the number of people.

Find the missing numbers

Rugby Team	Number of people
Scotland	24
England	42
Wales	54
France	9
Ireland	42
Italy	18

Frank thinks of a **whole** number.

He multiplies it by 6.

He rounds his answer to the nearest 10

The answer is 70

Write all the possible numbers that Frank could have started with

11, 12

Name: Answers

5-a-day

Gold



9th June

13×12

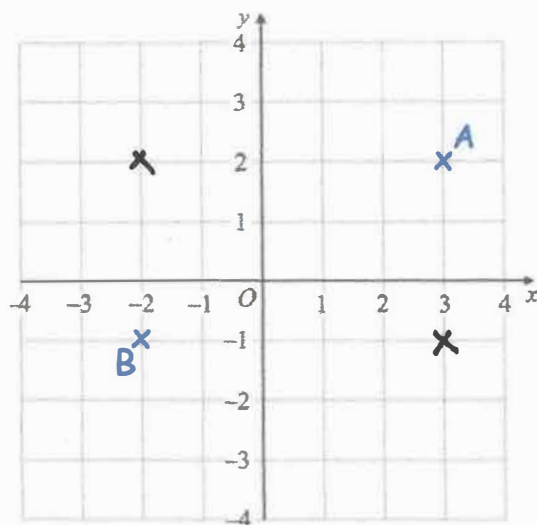
$$\begin{array}{r} 12 \times 12 = 144 \\ + 12 \\ \hline 156 \end{array}$$

156

20% of 120

$$\begin{array}{r} 10\% - 12 \\ 20\% - 24 \end{array}$$

24



Write down the coordinates of point A.

(3, 2)

Dani uses coordinates A and B as two of the vertices of a right angled triangle.

What are the coordinates of the missing vertex?

(3, -1) or (-2, 2)

Here are four numbers in Roman numerals

XC LXXV CII LVIII
90 75 102 58

Write the numbers in order, starting with the **smallest**.

LVIII
LXXV
XC
CII

Name: _____

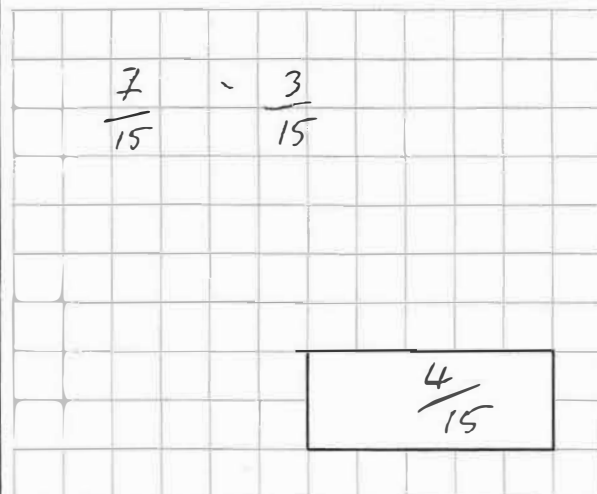
5-a-day

Gold

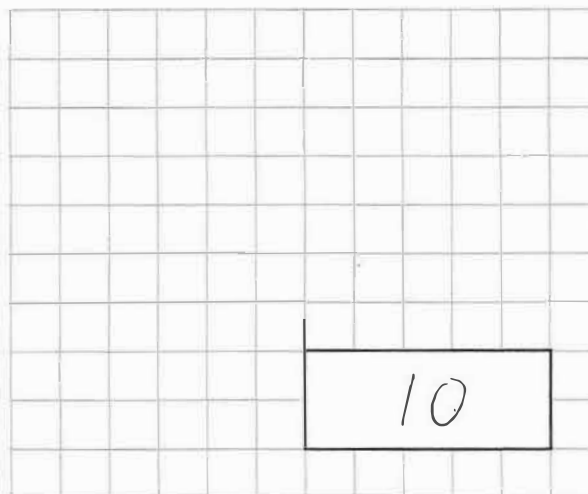


10th June

$$\frac{7}{15} - \frac{1}{5}$$



$$\square^3 = 1,000$$

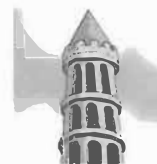


A group of 9 friends go on a holiday.

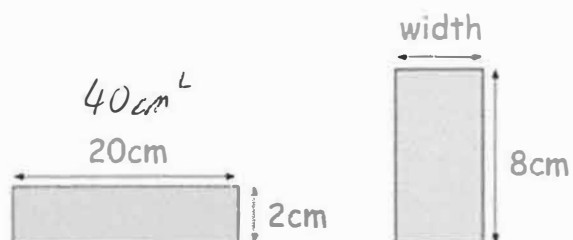
The total cost of the holiday is £6534

How much does each person pay?

$$6534 \div 9$$



£726



These two rectangles have the same area

Work out the width of the yellow rectangle

5cm

A box contains red, yellow and blue sweets.

In total there are 80 sweets.

20% of the sweets are yellow. 16

There are 6 more red sweets than yellow sweets. 22

What fraction of the sweets are blue?

42 blue sweets

$$\frac{42}{80} = \frac{21}{40}$$

Name: Answer

5-a-day

Gold



11th June

$$0.6 = \frac{6}{10}$$

$$\frac{6}{10} = \frac{3}{5}$$

$$1,040 \div 40$$

$$\begin{array}{r} 26 \\ 40 \overline{) 1040} \\ \underline{80} \\ 240 \\ \underline{240} \\ 0 \end{array}$$

26

There are 1,596 fans at a football match.

$\frac{3}{7}$ of the fans are children.

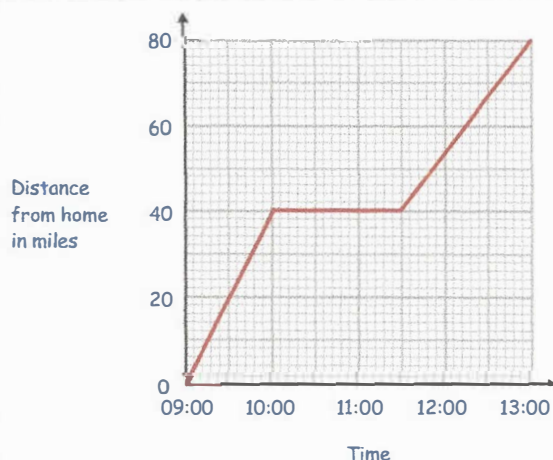
How many adults attended the football match?

912

$\frac{4}{7}$ are adults

$$1596 \div 7 \times 4$$

$$= 912$$



Natalie travels from her home to London. She stopped and visited her friend Edward on the way.

How far was Natalie from home when she visited Edward?

40 miles

How long did Natalie stop for?

1h 30min

Name:

5-a-day

Gold



12th June

$$4^3 = 64$$

4

$$\frac{19}{20} - \frac{7}{10}$$

$$\frac{19}{20} - \frac{14}{20} = \frac{5}{20} = \frac{1}{4}$$

 $\frac{1}{4}$

A box contains red, yellow and blue sweets.

In total there are 80 sweets.

10% of the sweets are yellow.

There are 6 more red sweets than yellow sweets.

$$\frac{29}{40}$$

What fraction of the sweets are blue?

8 are yellow

14 are red

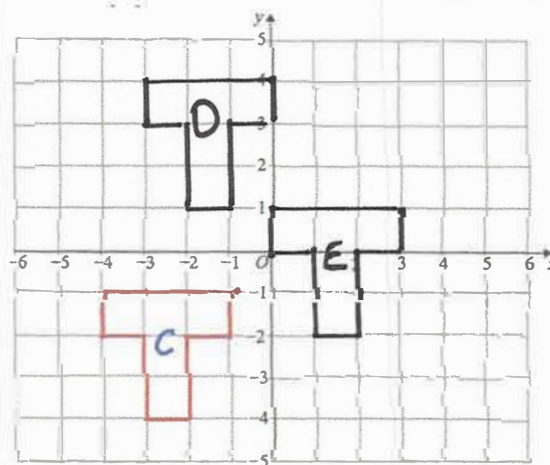
$$80 - 22 = 58 \text{ blue}$$

$$58/80 = 29/40$$

Shape C is translated **1 right** and **5 up**

Draw the shape in its new position.

Label the new shape, D.



Shape D is translated **3 right and 3 down**.

Draw the shape in its new position.

Label the new shape E.

Name: Answers

5-a-day

Gold



13th June

$$30^2$$

900

$$\begin{array}{r} 152 \\ \times 34 \\ \hline 608 \\ 4560 \\ \hline 5168 \end{array}$$

5168

Write these numbers in order, starting with the **smallest**

~~0.78~~ ~~0.506~~ ~~0.64~~ ~~0.097~~ ~~1.001~~

0.097
0.506
0.64
0.78
1.001

Mr Smith puts up 7 shelves in his garage.
Each shelf is 174cm long.

Work out the total length of wood Mr Smith needs for the 7 shelves.

Give your answer in metres.

12.18m

$$\begin{array}{r} 174 \\ \times 7 \\ \hline 1218 \text{ cm} \end{array}$$

A snowboarder completes 4 somersaults in a jump.

How many degrees does she turn through in the jump?

1440°



$$4 \times 360 = 1440^\circ$$

Name: Answer

5-a-day

Gold



14th June

Simplify $\frac{3}{15}$

$\frac{1}{5}$

$$\begin{array}{r} 164 \\ 25 \overline{) 4100} \end{array}$$

164

List the factors of 32.

1, 2, 4, 8, 16, 32

A number in Roman numerals is LV

Write LV in figures

55

3 students sit a test.
The total for the test is 80 marks.

Emily got 60% of the 80 marks = 48

Rebecca got $\frac{5}{8}$ of the 80 marks = 50

Roisin got 57 out of 80 marks = 57

Put the students in order, starting with who scored the most marks

1) Roisin

2) Rebecca

3) Emily

Name: Answer

5-a-day

Gold



15th June

$$25 \times 14 \times 5$$

$$14 \times 5 = 70$$
$$\begin{array}{r} 25 \\ \times 70 \\ \hline 1750 \end{array}$$

1750

$$75\% \text{ of } 608$$

$$608 \div 4$$
$$= 152$$
$$152 \times 3 = 456$$

456

30% of the children in a class are left-handed.

There are 20 students in the class.

How many children are right-handed?

14

$$30\% \text{ of } 20 = 6$$

14 are r-h

Write down the first 3 prime numbers

2, 3, 5

Here is a shape made from two identical squares and two identical rectangles.



Work out the perimeter

52.6cm

Name: Answers

5-a-day

Gold



16th June

$$80 \div 1,000$$

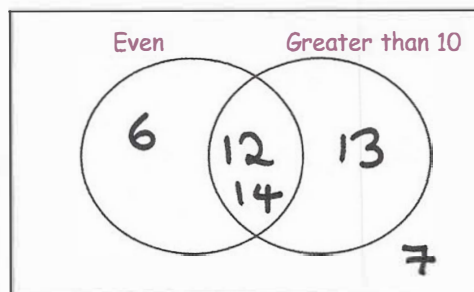
0.08

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

$2\frac{1}{2}$

Put these numbers in the correct place on the diagram

6 7 12 13 14



Circle two different numbers that multiply together to make one million.

(100) 1,000 (10,000) 100,000

Caleb thinks of a number

He divides it 4
Then he adds 15.

His answer is the same as his starting number.

What number did Caleb start with?



20

Name: Answers

5-a-day

Gold



17th June

$$\frac{3}{4} = \frac{39}{\square}$$

52

$$6.35 + 2.915 + 5.2$$

$$\begin{array}{r} 6.35 \\ 2.915 \\ 5.2 \\ \hline 14.465 \end{array}$$

14.465

50% of a number is 30

What is the number?

60

Almonds cost £1.20 per 100 grams

What is the cost of 250 grams of almonds?

£3

$$\begin{array}{r} £2.40 \text{ per } 200\text{g} \\ 60\text{p per } 50\text{g} \\ \hline £3.00 \end{array}$$

Cafe Red sells 3 sandwiches for £5.28
Sandwich World sells 4 sandwiches for £7.00

Which shop is better value for money?

Sandwich World



$$\begin{array}{l} 5.28 \div 3 = £1.76 \\ 7 \div 4 = £1.75 \end{array}$$

Name: Answer

5-a-day

Gold



18th June

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

25%

$$85 \times 41$$

$$\begin{array}{r} 85 \\ \times 41 \\ \hline 85 \\ 3400 \\ \hline 3485 \end{array}$$

3485

Matt asked 28 people to see how they travelled to work.

Matt says, "exactly 10% of the people in the survey said they travelled by train."

Explain why Matt is **wrong**

10% of 28 is 2.8
and you can't have
fractions of people

Write these numbers in order, starting with the smallest.

~~9.21~~ ~~9.091~~ ~~9.119~~ ~~9.2~~ ~~9.28~~

9.091
9.119
9.2
9.21
9.28

Three whole numbers have a mean of 30.

All the numbers are different.

Write down three possible numbers

(any numbers totalling 90)

25

32

33

Name: Answers

5-a-day

Gold



19th June

$$\begin{array}{r} 675 \\ 6 \overline{) 40450} \end{array}$$

675

$$\frac{7}{20} + \frac{1}{5}$$

$$\frac{7}{20} + \frac{4}{20} = \frac{11}{20}$$

$\frac{11}{20}$

Michael and Rosie each have a bottle of water.

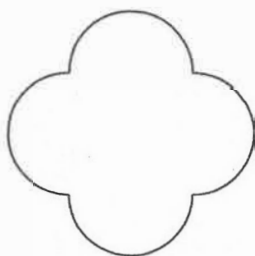
Michael's bottle contains $1\frac{3}{4}$ litres

Rosie's bottle contains 2.2 litres

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

$$\begin{array}{r} 1\frac{3}{4} = 1750 \text{ mL} \\ 2.2 = 2200 \text{ mL} \\ \hline 450 \text{ mL} \end{array}$$

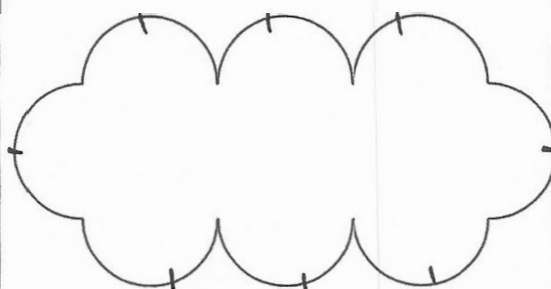
This shape is made from four identical curves



The perimeter of the shape is 32 centimetres.

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

$$\text{each curve } 32 \div 4 = 8$$



What is the perimeter of the new shape?

$$8 \times 8 = \underline{64 \text{ cm}}$$

Name: Answen

5-a-day

Gold



20th June

$$8,900 + 52,800$$

$$\begin{array}{r} 52800 \\ + 8900 \\ \hline 61700 \end{array}$$

61700

$$\frac{3}{\square} = \frac{36}{96}$$

8

Here are 6 tiles

9	7
4	1

6	9
3	8

7	0
2	5

8	4
3	7

5	2
4	8

2	5
1	6

The tiles are placed on the grid below so that the column and row totals add up to the numbers shown.

The two shaded tiles have been placed on the grid for you.
Place the other four tiles onto the grid.

	5	2	7	0	9	7	total
4	8	2	5	4	1		24
8	9	8	4	2	5		36
3	8	3	7	1	6		28
total	20	27	20	16	16	19	

A box contains 3kg of rice = ~~3000g~~

Laura uses 75 grams of rice for each meal.
She uses all the rice.

How many meals did Laura make?

40

$$\begin{array}{l} 3000 \div 75 \\ = 40 \end{array}$$



Name: Answers

5-a-day

Gold



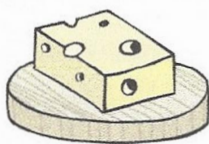
21st June

$$160 \times 1,000$$

160,000

$$\begin{array}{r} 340 \\ \times 62 \\ \hline 680 \\ 20400 \\ \hline 21080 \end{array}$$

21080



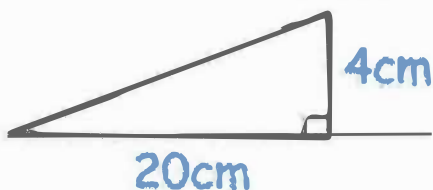
Cheese
35p per 100g

Cheryl buys some cheese for £1.05

How many grams of cheese does she get?

$$105 \div 35 = 3$$

$$3 \times 100g = \underline{300g}$$



Find the area of this triangle

$$4 \times 20 \div 2 = \underline{40cm^2}$$

Andrew has £80.20
Beth has £7.40

How much must Andrew give Beth so that they each end up with the same amount?

$$\underline{\pounds 36.40}$$

$$\text{Total} = \pounds 87.60$$

$$\text{Half} = \pounds 43.80$$

$$43.80 - 7.40 = \pounds 36.40$$



22nd June

$$\frac{28}{5} = 5 \frac{\frac{\square}{5}}{5}$$

$$44 \times 19 = 4 \times$$

$$\begin{array}{r} 19 \\ \times 11 \\ \hline 19 \\ 190 \\ \hline 209 \end{array}$$

3

209

Marcus has five coins.

Three of the coins add to £70p

Three of the coins add up to £2.20

All five coins add up to £3.70

What are the coins that Marcus has?

22

法1

lop

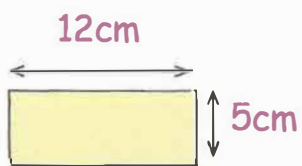
Sop

10f

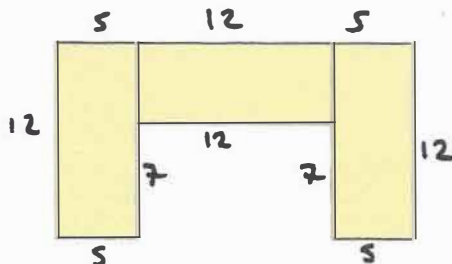
Zara has some identical rectangles.

What is the perimeter of Zara's shape?

82 cm



She makes this shape using three of the rectangles



Name: Answers

5-a-day

Gold



23rd June

10% of 70

7

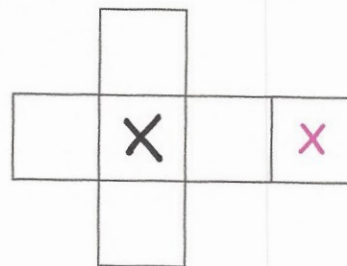
$$260.3 - 118.49$$

$$\begin{array}{r} 280.30 \\ - 118.49 \\ \hline 141.81 \end{array}$$

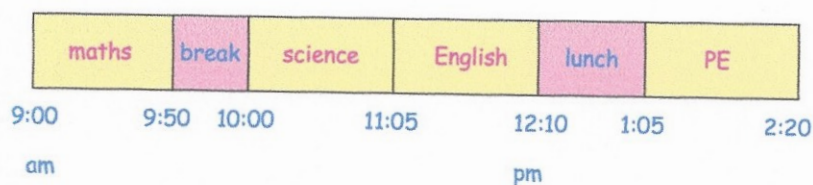
141.81

Here is a net of a cube.

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



Here is Jessica's timetable on a Wednesday



How long does the science lesson last?

1h 5mins
(65 mins)

Jessica leaves school early to go to the doctor. She leaves 20 minutes before the end of her English lesson.

What time did Jessica leave?

11.50 am

Name: Answers

5-a-day

Gold



24th June

30% of 90

$$\begin{array}{l} 10\% = 9 \\ 30\% = 9 \times 3 = 27 \end{array}$$

27

$$\frac{7}{10} - \frac{1}{2}$$

$$\frac{7}{10} - \frac{5}{10} = \frac{2}{10}$$

 $\frac{1}{5}$

Write three factors of 30 that are **not** factors of 15

2630

A box of staples contains 1,000 staples.

A secretary wants to order three million staples.

How many boxes of staples should they order?

3000

$$\begin{array}{l} 3,000,000 \div 1,000 \\ = 3,000 \end{array}$$

Find the mean of these numbers

17 18 15 22 33

21

$$\text{total} = 105$$

$$\frac{105}{5} = 21$$

Name: Answers

5-a-day

Gold



25th June

$$-25 + 33$$

8

$$1.4 - 0.522$$

$$\begin{array}{r} 1.400 \\ - 0.522 \\ \hline 0.878 \end{array}$$

0.878

A toad croaks every 10 seconds.
A frog croaks every 18 seconds.
They both croak at the same time.

After how many seconds will they next both croak at the same time?

90 seconds

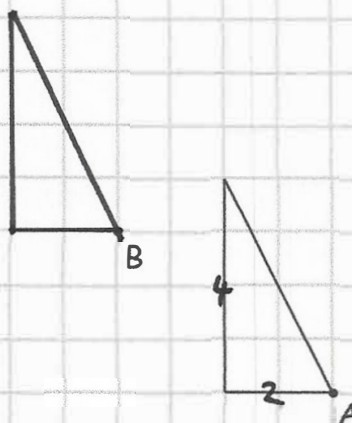


10, 20, 30, 40, . . . 90
18, 36, 54, 72, 90

Here is a triangle on a grid.

The triangle is translated so that point A moves to point B.

Draw the triangle in its new position.



Find the area of each triangle.

$$2 \times 4 \div 2 = \underline{4 \text{ cm}^2}$$

Name: Answers

5-a-day

Gold



26th June

Simplify $\frac{8}{30}$

$\frac{4}{15}$

$3948 \div 6$

$$\begin{array}{r} 658 \\ 6 \overline{) 3948} \end{array}$$

658

Find the total number of people living in these four cities.

1,854,833

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

In a bag there are red, green, pink and white beads.

Altogether there are 80 beads.

There are 23 red beads.

There are an equal number of green, pink and white beads.

What fraction of the beads are white?

$$80 - 23 = 57$$

$$57 \div 3 = 19$$

$\frac{19}{80}$ are white

Gareth chooses a **square number**

He rounds it to the nearest hundred.

His answer is 200.

Write a possible square number that Gareth could have chosen.

$$13^2 = 169$$

$$14^2 = 196$$

$$15^2 = 225$$

$$16^2 = 256$$

169, 196, 225

Name: Answers

5-a-day

Gold



27th June

$$7^2$$

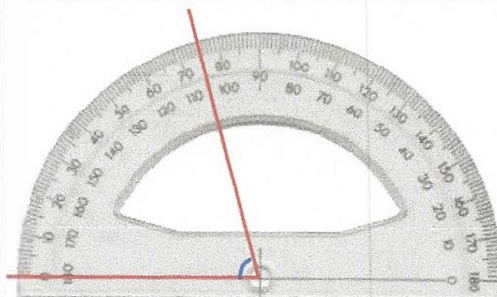
49

$$5,000 \div 20$$

250

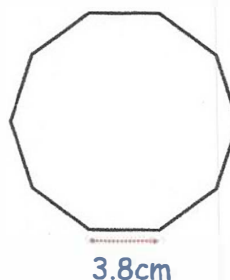
What size is the angle being measured?

75°



Find the perimeter of this regular decagon

$$3.8 \times 10 \\ = 38\text{cm}$$



Complete this table

Fraction	Decimal	Percentage
$\frac{1}{2}$	0.5	50%
$\frac{3}{4}$	0.75	75%
$\frac{1}{5}$	0.2	20%
$\frac{3}{10}$	0.3	30%

Name: Answers

5-a-day

Gold



28th June

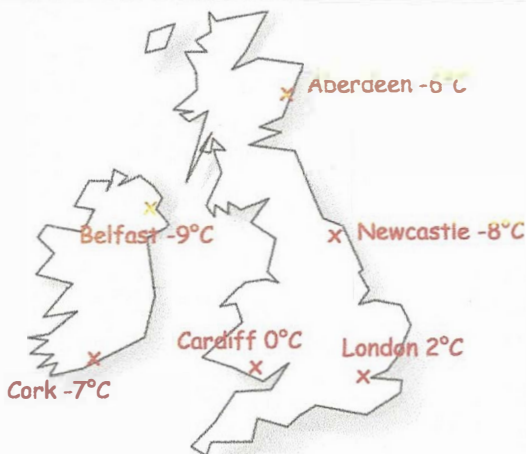
$$0.2 = \frac{1}{5}$$

$$\frac{1}{5}$$

$$285 \times 11$$

$$\begin{array}{r} 285 \\ \times 11 \\ \hline 285 \\ 2850 \\ \hline 3135 \end{array}$$

$$3135$$



Arrange the cities in order of temperature, starting with the coldest.

Belfast
Newcastle
Cork
Aberdeen
London, Cardiff

The temperature in Berlin is 5°C colder than Newcastle.

What is the temperature in Berlin?

$$-13^{\circ}\text{C}$$

Timothy orders the following items at a restaurant.

- 4 pizzas at £4.49 each.
- 2 garlic breads at £3.10 each.
- 2 orange juices at £1.19 each.
- 2 sparkling water at 99p each.

Complete the bill

Corbett Cuisine		
	£	pence
4 pizzas at £4.49	17	96
2 garlic bread at £3.10	6	20
2 orange juice at £1.19	2	38
2 sparkling water at 99p	1	98
Total	28	52

Name: Answers

5-a-day

Gold



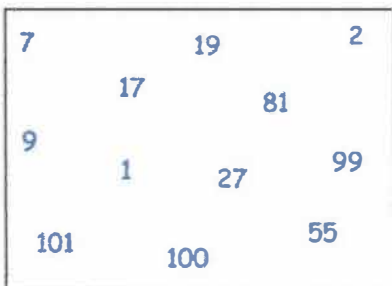
29th June

$$9\frac{2}{3} = \frac{\square}{3}$$

29

$$\begin{array}{r} 46 \\ \times 37 \\ \hline 322 \\ 1380 \\ \hline 1702 \end{array}$$

1702



From the box choose the **smallest** prime number

2

From the box choose the **largest** prime number

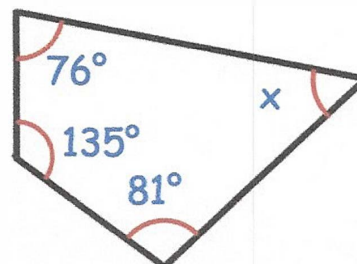
101

From the box write down **three** numbers that are **not prime**

any of 1, 9, 27, 55, 81, 99, 100

Find the size of angle x

68°



Name: Answer

5-a-day

Gold



30th June

$$5^3$$

125

$$\frac{13}{30} + \frac{1}{2}$$

$$\frac{13}{30} + \frac{15}{30} = \frac{28}{30}$$

$\frac{14}{15}$

Find the next two numbers in this sequence.

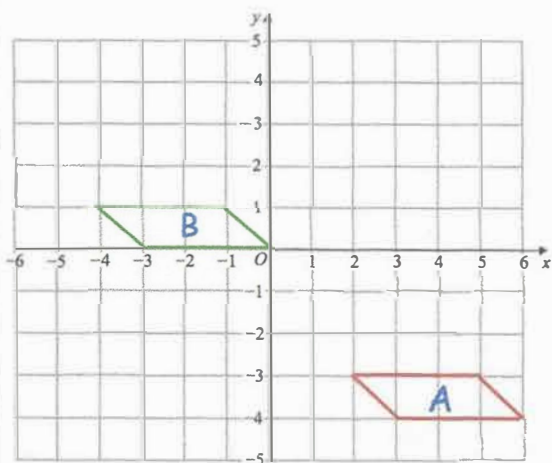
99,810 99,870 99,930

$\downarrow$
+60

$\downarrow$
+60

99,990, 100,050

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