

Name: Answers

5-a-day

Gold



1st August

$$10^2 = 100$$

2

$$\frac{7}{8} + \frac{1}{24}$$

$$\frac{21}{24} + \frac{1}{24} = \frac{22}{24} = \frac{11}{12}$$

$\frac{11}{12}$

Write the missing values

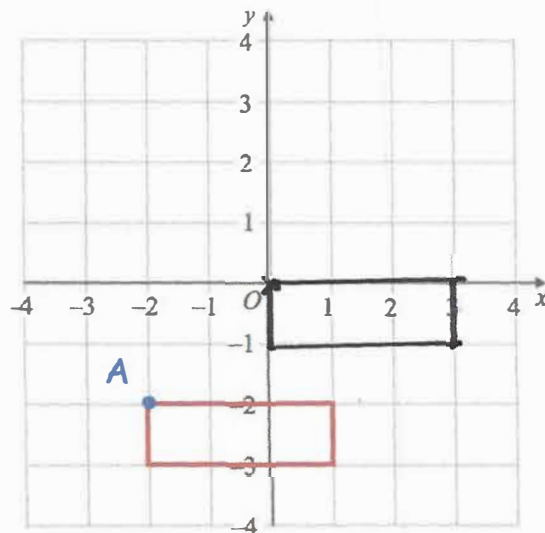
$$\frac{4}{5} = \frac{12}{15} = \frac{48}{60}$$

(Handwritten annotations: $\times 3$ under 4 and 5; $\times 4$ over 12 and 15)

Here is a rectangle on a grid.

The rectangle is translated so that the point A moves to (0, 0).

Draw the rectangle in its new position



Name: Armen

5-a-day

Gold



2nd August

25% of 112

Handwritten solution on grid paper:

$$112 \times \frac{25}{100} = 112 \times \frac{1}{4} = 28$$

28

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

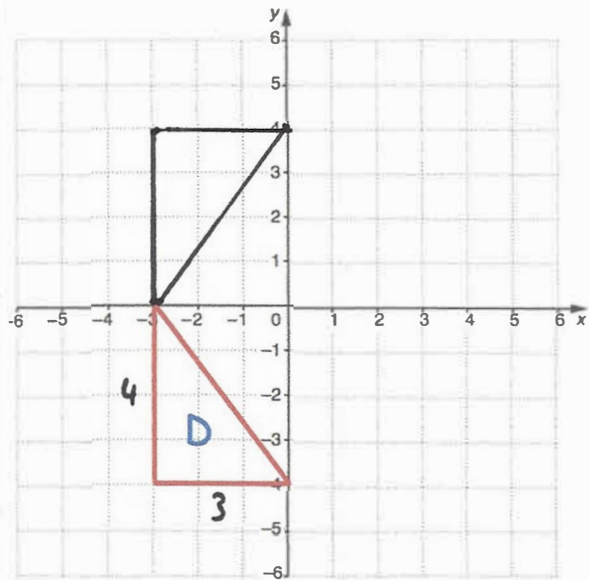
Handwritten solution on grid paper:

$$\frac{3}{4} + \frac{2}{4} = \frac{5}{4}$$

$\frac{5}{4}$ or $1\frac{1}{4}$

Find the area of triangle D

$$3 \times 4 \div 2 = \underline{\underline{6}}$$



Reflect D in the x-axis

Here is part of Olivia's gas bill.

Each unit costs 9p

Old reading	1695 units
New reading	2104 units

Work out how much Olivia will have to pay

$$2104 - 1695 = 409$$

$$409 \times 9 = 3681$$

$$\underline{\underline{\pounds 36.81}}$$

Name: Answer

5-a-day

Gold



3rd August

750×100

75,000

$2\frac{5}{8} = \frac{\square}{8}$

21



Cheese
96p per 100g

50g costs 48p
 $48 + 96 = 144$

Work out the cost of 150g of cheese

£1.44

List all the common multiples of 6 and 7 under 100

42, 84

Three single-digit numbers multiply to make 648

Write the missing numbers

$\boxed{8} \times \boxed{9} \times \boxed{9} = 648$

Name: Andrew

5-a-day

Gold



4th August

$$25\% = \frac{25}{100}$$

$$\frac{25}{100} = \frac{1}{4}$$

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

$$-100 + 32$$

$$-68$$

Circle two different numbers that multiply together to make 10 million.

10 100 1,000 10,000

100,000

An adult ticket for a museum is £12.00

A child ticket is 25% cheaper than an adult ticket.

How much is a child ticket?

£9



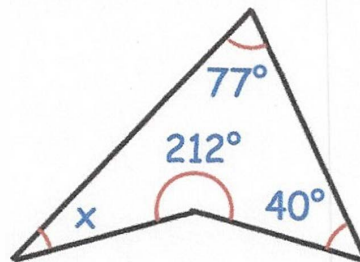
$$25\% \text{ of } £12 = £3$$

$$12 - 3 = 9$$

Find the size of angle x

$$212 + 77 + 40 = 329$$

$$360 - 329 = \underline{31^\circ}$$



Name: Answer

5-a-day

Gold



5th August

Simplify $\frac{16}{24} \div 8 = 2$
 $\frac{24}{24} \div 8 = 3$

$\frac{2}{3}$

$305 \times 1,000$

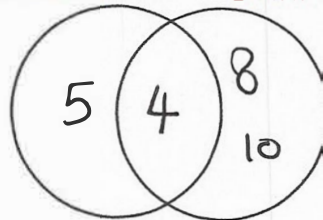
305,000

Put these numbers in the correct place on the diagram

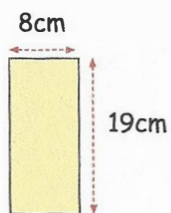
4 5 8 9 10

Numbers under 8

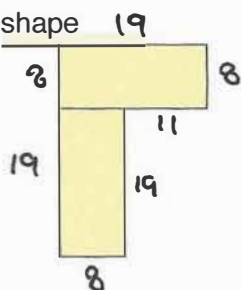
Even numbers



A shape is made from two rectangular tiles like this



This is the shape



Work out the area of the shape

$(8 \times 19) \times 2 = \underline{304 \text{ cm}^2}$

Work out the perimeter of the shape

$\underline{92 \text{ cm}}$

Name: Answer



6th August

14^2

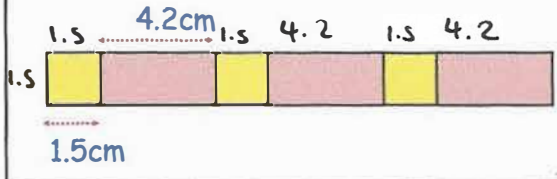
196

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

$\frac{7}{15} - \frac{3}{15} =$

$\frac{4}{15}$

Shown is a shape made from three identical squares and three identical rectangles.



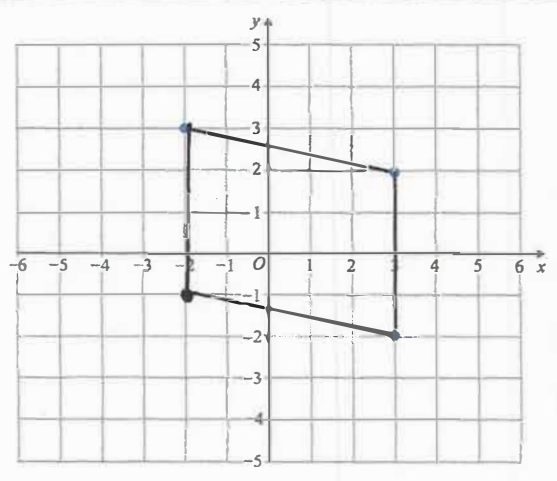
Calculate the perimeter

length = 17.1
w = 1.5

$(17.1 + 1.5) \times 2 = 37.2 \text{ cm}$

Two sides of a parallelogram have been drawn.

Complete the parallelogram



How many lines of symmetry does the parallelogram have?

None

Name: Answers

5-a-day

Gold



7th August

50% of 392

$$\begin{array}{r} 196 \\ 2 \overline{) 392} \end{array}$$

196

56,000 - 1,945

$$56000 - 2000$$

$$= 54000$$

$$+ 55 =$$

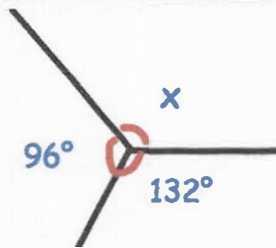
54055

Work out the size of the missing angle

$$96 + 132 = 228$$

$$360 - 228$$

$$\underline{\underline{132^\circ}}$$



A basketball team plays 5 matches
The number of points they score in each
match is

58, 41, 57, 49, 55

Work out the mean number of points
scored



$$\text{Total} = 260$$

$$260 \div 5 = \underline{\underline{52}}$$

A snowboarder completes 5 somersaults
in a jump.

How many degrees does she turn through
in the jump?

$$\underline{\underline{1800^\circ}}$$



$$5 \times 360$$

$$= 1800$$

Name: Answer

5-a-day

Gold



8th August

$$-16 + 7$$

-9

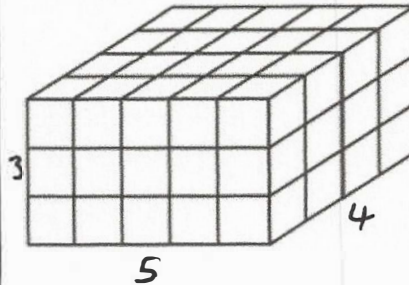
$$\frac{11}{3} = 3\frac{2}{3}$$

2

Each cube has a volume of 1cm^3

Work out the volume of the cuboid

$$3 \times 4 \times 5 = \underline{60\text{cm}^3}$$



Some children take a test.
The pass mark is 75%
There are 20 marks in the test

Tommy 14 marks
Grace 17 marks
Megan 15 marks
Lewis 18 marks
Orla 16 marks

$$75\% \text{ of } 20 = 15$$

Write down the names of the students who passed the test?

Grace, Megan, Lewis,
Orla

What fraction of the students passed the test?

$\frac{4}{5}$

Name: Answers

5-a-day

Gold



9th August

$$\frac{3}{11} \times 4$$

$$\frac{12}{11} \text{ or } 1\frac{1}{11}$$

$$20^3$$

$$8000$$

17,800 people watched a match between Rovers and City.

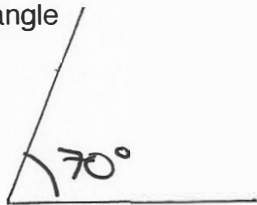
10% of the fans support City

How many fans support Rovers?

$$10\% = 1780$$

$$\begin{aligned} \text{Rovers } 17800 - 1780 \\ = \underline{\underline{16020}} \end{aligned}$$

Draw a 70° angle



Harry spent $\frac{1}{3}$ of his pocket money on a ticket for a football match.

He spent $\frac{1}{6}$ of his pocket money on a scarf

What fraction of his pocket money has Harry spent?

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

$$\underline{\underline{\frac{3}{6} \text{ or } \frac{1}{2}}}$$

Name: Answers

5-a-day

Gold



10th August

$$-460 + 190$$

$$\underline{-270}$$

$$\frac{3}{8} + \frac{1}{24}$$

$$\frac{9}{24} + \frac{1}{24} = \frac{10}{24} = \frac{5}{12}$$

$$\underline{\frac{5}{12}}$$

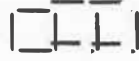
These patterns are made of sticks



Pattern 1

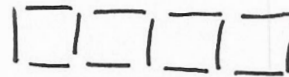


Pattern 2



Pattern 3

Draw Pattern 4



Find the number of sticks in Pattern 6

4, 7, 10, 13, 16, 19

19

20 identical books are placed in a row on a shelf

9 books are taken away from the row

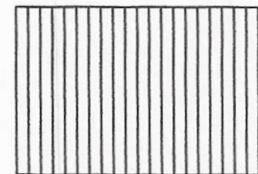
How long is the row now?

$$180 \div 20 = 9 \text{ cm}$$

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

$$180 - 81 = \underline{99 \text{ cm}}$$

180cm



Name: Answer

5-a-day

Gold



11th August

$$\frac{3}{5} = \boxed{60\%}$$

$$\frac{3}{5} = \frac{60}{100}$$

60%

$$936 \div 8$$

$$\begin{array}{r} 117 \\ 8 \overline{) 936} \\ \underline{8} \\ 13 \\ \underline{16} \\ 66 \\ \underline{64} \\ 26 \\ \underline{24} \\ 26 \\ \underline{24} \\ 26 \\ \underline{24} \\ 26 \end{array}$$

117

A bottle of cola holds 3 litres.

How many 250 millilitre glasses can be poured from the bottle?

$$\underline{\underline{12}}$$

$$3000 \div 250 = 12$$



Over 20 days in February, it rained on 14 days.

What fraction of the days were rainy?
Simplify your answer

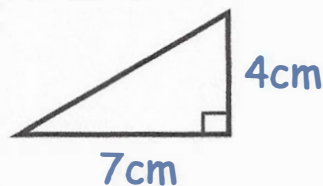
$$\underline{\underline{\frac{7}{10}}}$$



$$\frac{14}{20} = \frac{7}{10}$$

Find the area of this triangle

$$4 \times 7 \div 2 = \underline{\underline{14\text{cm}^2}}$$



Name: Arwen

5-a-day

Gold



12th August

$0.4 \times 1,000$

Grid area for the first calculation. The answer **400** is written in a box at the bottom.

33×66

Grid area for the second calculation. A handwritten multiplication is shown:

$$\begin{array}{r} 66 \\ \times 33 \\ \hline 198 \\ 1980 \\ \hline 2178 \end{array}$$

The answer **2178** is written in a box at the bottom.

Arrange in order, smallest to largest

60% $\frac{1}{2}$ 0.3 $\frac{3}{4}$ 0.4
50% 30% 75% 40%

$0.3, 0.4, \frac{1}{2}, 60\%, \frac{3}{4}$

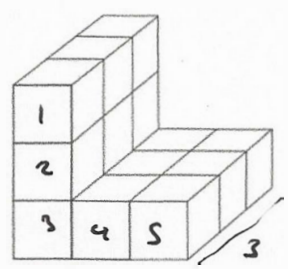
Write down the number that is one thousand **less** than five million

4,999,000

The picture shows a shape made with cubes which each have a volume of 1cm^3

Find the volume of the shape

$5 \times 3 = \underline{15\text{cm}^3}$



Name: Answers

5-a-day

Gold



13th August

$$\begin{array}{r} 4 \overline{) 44} \\ \underline{44} \\ 0 \\ \underline{00} \\ 00 \\ \underline{00} \\ 00 \end{array}$$

11

$$100 \times 0.054$$

5.4

Georgina buys **four** sandwiches.
She pays with a **£20 note**
This is her change



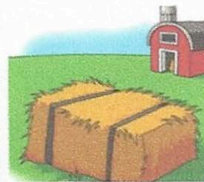
How much is **one** sandwich?

$$\begin{aligned} \text{£}20 - \text{£}7.24 &= \text{£}12.76 \\ \text{£}12.76 \div 4 &= \underline{\underline{\text{£}3.19}} \end{aligned}$$

A farmer has a field that is
200 metres long and 60 metres.

W

$$12000\text{m}^2$$



$$200 \times 60$$

Sophie has £2.22
Robert has 90p

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

66p



$$\begin{aligned} 2.22 - 0.90 \\ = 1.32 \end{aligned}$$

$$1.32 \div 2 = 0.66$$

Name: Answers

5-a-day

Gold



14th August

6^2

36

$$\frac{9}{14} - \frac{1}{2}$$

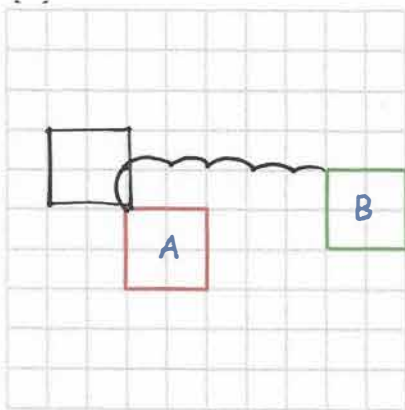
$$\frac{9}{14} - \frac{7}{14} = \frac{2}{14} (= \frac{1}{7})$$

$\frac{1}{7}$

Write down **all** the common multiples of 3 and 7 that are less than 50.

21, 42

Square B has been translated to Square A



Complete this sentence

Square B has been translated

squares to the left and

squares down

Translate square A 2 squares left and 2 squares upwards

Name: Answer

5-a-day

Gold



15th August

$$4.7 + 3.82 + 0.8$$

$$\begin{array}{r} 4.7 \\ 3.82 \\ 0.8 \\ \hline 9.32 \end{array}$$

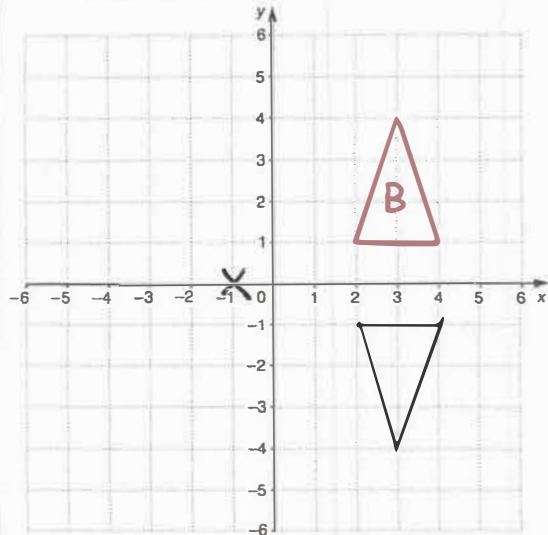
9.32

$$2,772 \times 6$$

$$\begin{array}{r} 2772 \\ \times 6 \\ \hline 16632 \\ \begin{array}{l} 4 \\ 4 \\ 1 \end{array} \end{array}$$

16632

Reflect triangle B in the x-axis



Plot the coordinate $(-1, 0)$

A theatre has 36 rows.
There are 21 seats in each row.

During a show at the theatre, there are 90 empty seats

Work out how many people are watching the show

$$21 \times 36 = 756$$

$$756 - 90$$

$$= \underline{\underline{666}}$$

Name: Anwar

5-a-day

Gold



16th August

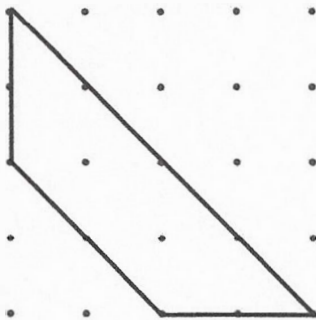
Simplify $\frac{24}{30} \div 6 = 4$
 $\frac{30}{30} \div 6 = 5$

$\frac{4}{5}$

$132 \div 12$

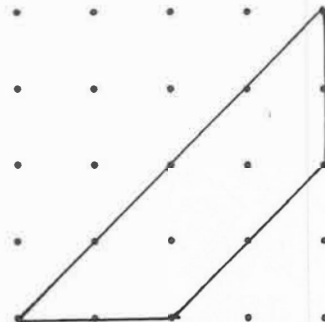
11

Paul draws this shape on a grid



He turns his grid one quarter turn anticlockwise

Draw the shape in its new position after the turn



Clara runs 1.3 kilometres every day.
Work out how far Clara runs in one week

Give your answer in metres

9100m

$1.3 \times 7 = 9.1 \text{ km}$

Name: Alfred

5-a-day

Gold



17th August

10% of 3,200

320

$1,140 \div 20$

57

5 children take part in a race.
Their times are:

Jonah 19.23 seconds
Noah 19.4 seconds
Jeremy 19.09 seconds 1st
David 19.155 seconds 2nd
Alan 19.38 seconds

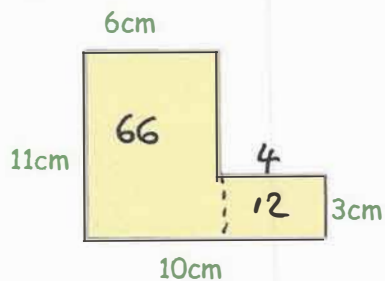
The top three children win gold, silver and bronze medals.

Who won the silver medal?

David

Find the area of this shape

$$66 + 12 = \underline{78 \text{ cm}^2}$$



How many seconds are there in an hour?

$$60 \times 60 = \underline{3600 \text{ seconds}}$$

How many hours are there in March?

$$24 \times 31 = \underline{744 \text{ hours}}$$



18th August

0.9 = $\frac{9}{10}$

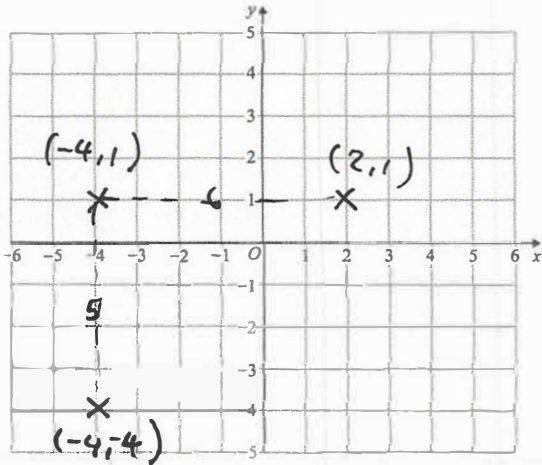
$\frac{9}{10}$

Handwritten long multiplication:

$$\begin{array}{r} 2189 \\ - 67317 \\ \hline 21889 \end{array}$$

21889

Plot the coordinates (-4, -4), (-4, 1) and (2, 1)



Find the area of the triangle

$6 \times 5 \div 2 = \underline{15 \text{ cm}^2}$

Bonbons cost 60p per 100g
Strawberry laces cost 90p per 100g

Sam buys 200g of Bonbons and
150g of strawberry laces

How much does he pay altogether?

$$\begin{aligned} 60\text{p} \times 2 + 90\text{p} \times 1\frac{1}{2} \\ = 120 + 135 \\ = \underline{\underline{£2.55}} \end{aligned}$$

Name: Andrew

5-a-day

Gold



19th August

$60 \div 1,000$

0.06

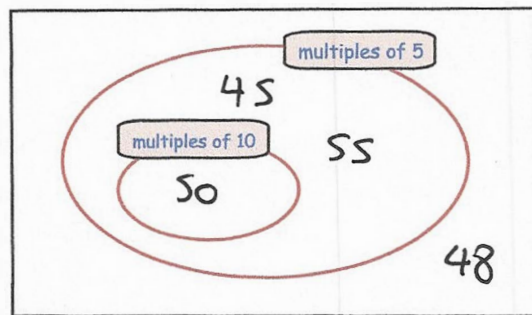
$\frac{7}{20} + \frac{2}{5}$

$\frac{7}{20} + \frac{8}{20} = \frac{15}{20} = \left(\frac{3}{4}\right)$

$\frac{3}{4}$

Place these numbers in the correct position on the Venn diagram

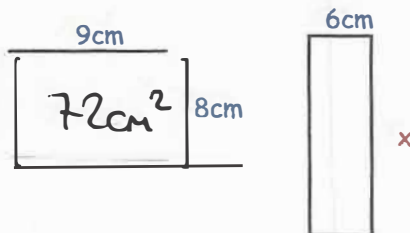
45 48 50 55



These two rectangles have the same area.

Find the length of the second rectangle.

$72 \div 6 = \underline{12\text{cm}^2}$



Olivia chooses a whole number

She multiplies it by 3 and then adds 2

She then divides this result by 4.

Her answer is 3.5

What was the number she started with?

$3.5 \times 4 = 14$

$14 - 2 = 12$

$12 \div 3 = \underline{4}$

Name: Anwen

5-a-day

Gold



20th August

$$0.5 \div 100$$

0.005

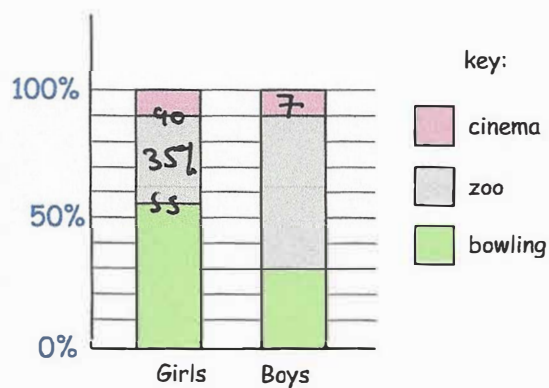
$$15 \times 26 \times 7$$

$$15 \times 7 = 105$$

$$\begin{array}{r} 105 \\ \times 26 \\ \hline 630 \\ 2100 \\ \hline 2730 \end{array}$$

2730

A teacher asks some girls and boys what they wanted to do on a school trip



What percentage of girls wanted to go to the zoo?

35%

7 boys wanted to go to the cinema.

Estimate how many boys wanted to go bowling.

$$\text{bowling} = 30\%$$

$$7 \times 3 = \underline{21}$$

Four friends are in a race.

Alice is 4 metres ahead of Barry

Clara is 9 metres behind Dylan

Barry is 5 metres behind Dylan

Write the names of the runners in order, starting with the friend who is furthest ahead

Dylan, Alice, Barry, Clara



21st August

$$2 \frac{15}{16} = \frac{\square}{16}$$

$$2 \times 16 + 15 =$$

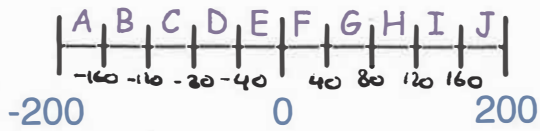
47

$$100,520 - 38,631$$

61889

Here is part of a number line.

It is divided into equal sections.



Write the letter of the section where each of these numbers belongs.

number	section
65	G
154	I
-121	B

Work out $\frac{3}{4}$ of £9

£6.75

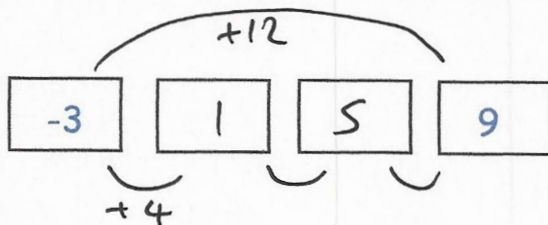
$$9 \div 4 = 2.25$$

$$\times 3 = 6.75$$

Kate makes a sequence of numbers.

Her rule is to add the same amount each time

Write in the missing numbers



Name: Andrew

5-a-day

Gold



22nd August

7^2

49

500×30

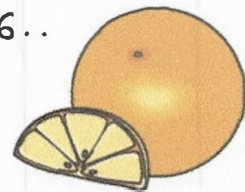
15000

Eva bought three cups of tea.
She pays with a £20 note.
Her change is £14.75
What is the cost of **five** cups of tea?

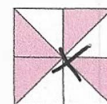
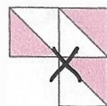
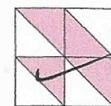
$20 - 14.75 = \pounds 5.25$
 $5.25 \div 3 = \pounds 1.75$ per 1 tea
 $1.75 \times 5 = \pounds 8.75$

Joshua has £4 to spend on oranges.
Small oranges cost 15p each
Large oranges cost 25p each
He decides to buy only small oranges or only large oranges.
How many **more** small oranges than large oranges can he buy for £4?

$4 \div 0.15 = 26.66\dots$
26 small
 $4 \div 0.25 = 16$
16 large
 $26 - 16 = \underline{\underline{10}}$



For each pattern put a tick if it has a line of symmetry. Put a cross if it does not.



Name: Answers

Primary 5-a-day

Gold



23rd August

$$17 \times 9 \times 12$$

$$9 \times 12 = 108$$

$$\begin{array}{r} 108 \\ \times 17 \\ \hline 756 \\ 1080 \\ \hline 1836 \end{array}$$

1836

$$\frac{11}{18} + \frac{1}{6}$$

$$\frac{11}{18} + \frac{3}{18} = \frac{14}{18} = \left(\frac{7}{9}\right)$$

$\frac{7}{9}$

Aidan earns £18 an hour.

He works 23 hours in one week.

He gives $\frac{1}{10}$ of his total pay to his mum.

How much money does he give to his mum?

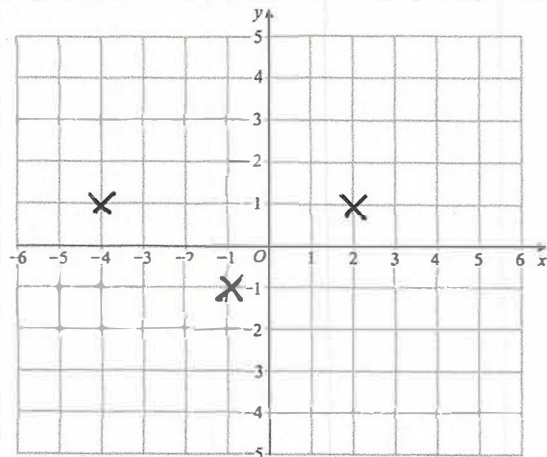
$$£18 \times 23 = £414$$

$$414 \div 10 = £41.40$$

Emily is drawing a rhombus on the grid. She plots three points.

$(-4, 1)$ $(-1, -1)$ $(2, 1)$

Plot these points



Emily has one more point to plot.

Write down the coordinates of the fourth vertex of the rhombus

$(-1, 3)$

Name: Answer

5-a-day

Gold



24th August

$$8^2 = 64$$

8

$$\frac{15}{45} = \frac{1}{3}$$

$\frac{1}{3}$

Martin is playing a game



He throws 8 balls at a target, one at a time.

Each hit is worth 9 points
Each miss is worth -5 points

Martin hits the target with 5 of the balls and misses with the rest.
How many points does Martin score in total?

$$\begin{array}{r} 5 \times 9 = 45 \\ 3 \times -5 = -15 \\ \hline 30 \end{array}$$

Laura throws 3 balls at the target, one at a time.

Is it possible for Laura to score 0 points in total?

No

Write down all the square numbers between 70 and 110

81, 100

Name: Anwes

5-a-day

Gold



25th August

$$484.5 \div 100$$

4.845

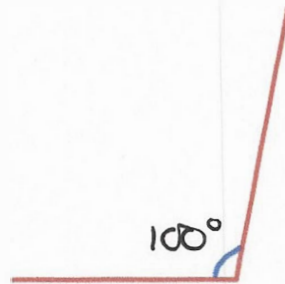
$$\frac{3}{4} - \frac{5}{16}$$

$$\frac{12}{16} - \frac{5}{16} =$$

$\frac{7}{16}$

Measure this angle

100°



The table shows the number of people living in three different countries.

Country	Population
Canada	36,624,199
Mexico	129,684,378
Turkey	81,127,417

What is the difference between the numbers of people living in Mexico and Canada.

$$\begin{array}{r} 129,684,378 \\ - 36,624,199 \\ \hline 93,060,179 \end{array}$$

$$2.5 \text{ tonnes} = \boxed{2500,000} \text{ grams}$$

$$2.5 \times 1000 \times 1000 = 2,500,000$$

Name: Anweny

5-a-day

Gold



26th August

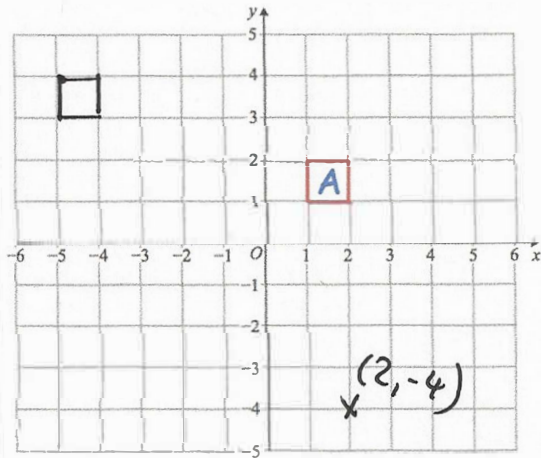
$$90,801 - 1,955$$

88846

$$1\frac{3}{4} \times 2$$

$$\frac{7}{4} \times 2 = \frac{14}{4} = \frac{7}{2}$$

$3\frac{1}{2}$ or $\frac{7}{2}$



The square A is translated 6 **left** and 2 **up**

Draw the square in its new position

Plot the point (2, -4)

A **square number** and a **multiple of 3** have a total of 90.

What are the two numbers?

$$\boxed{81} + \boxed{9} = 90$$

square number

multiple of 3

Name: Aamir

5-a-day

Gold



27th August

$$0.45 = \boxed{45\%}$$

$$5^3 = 125$$

$$\boxed{45\%}$$

$$\boxed{5}$$

Write down three factors of 30 that are **not** factors of 40.

$$\boxed{3} \quad \boxed{6} \quad \boxed{15}$$

(or 30)

Timothy saves £26 a week

Calculate how much money Timothy will save in one year

$$£1352$$

$$26 \times 52 = £1352$$

Write the two missing digits to make this **long multiplication** correct

$$\begin{array}{r} 7 \boxed{6} \\ \times \boxed{3} 9 \\ \hline 684 \\ 2280 \\ \hline 2964 \end{array}$$

Name: Answers

5-a-day

Gold



28th August

6^3

$$\begin{array}{r} 36 \\ \times 6 \\ \hline 216 \end{array}$$

216

$$\frac{77}{100} + \frac{3}{50}$$

$$\frac{77}{100} + \frac{6}{100} =$$

$\frac{83}{100}$

Here is part of a timetable for a bus

Southville	09 18	10 38	12 05
Leek	09 28	10 48	-----
Milton	09 41	11 01	-----
Newtown	09 49	11 09	-----
Red Island	09 55	11 15	12 36
Sandville	10 13	11 33	-----
Bakerstown	10 31	11 51	13 00

A bus leaves Southville at 12:05

How long does the journey to Red Island take?

$$12.05 \rightarrow 12.36$$

$$= \underline{31 \text{ mins}}$$

Anthony arrives at the Leek bus stop at 09:31

He waits for the next bus to Sandville

How many minutes should he wait?

$$29 + 48 = \underline{77 \text{ mins}}$$

At what time should Anthony arrive at Sandville?

11 33

Here is a number written in Roman numerals

CCXLIII

Write the number in figures

243

Name: Answers

5-a-day

Gold



29th August

10% of 740

Grid area for the calculation of 10% of 740.

74

$0.83 + 1.5 + 0.606$

Grid area for the addition of 0.83, 1.5, and 0.606.

$$\begin{array}{r} 0.83 \\ 1.5 \\ 0.606 \\ \hline 2.936 \end{array}$$

2.936

In each box, circle the number that is smaller

1.5

$1\frac{1}{2}$ 1.3

2.75

$2\frac{3}{4}$ 2.8

1.09

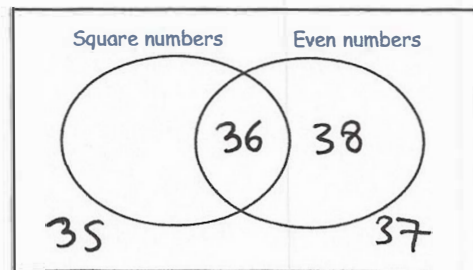
$1\frac{9}{100}$ 1.1

$4\frac{3}{5}$ 4.5

4.6

Write each number in its correct place on the diagram

35 36 37 38



Large cakes cost £5.75 each
Small cakes cost £3.80 each

Five children together buy three large cakes and one small cake.

They share the cost equally.

How much does each child pay?

$$\begin{aligned} 3 \times 5.75 &= 17.25 \\ 17.25 + 3.80 &= \pounds 21.05 \\ 21.05 \div 5 &= \pounds 4.21 \end{aligned}$$

Name: Answer

5-a-day

Gold



30th August

Simplify $\frac{14}{16} \div 2 = 7$
 $\frac{16}{16} \div 2 = 8$

$\frac{7}{8}$

$9376 \div 8$

$$\begin{array}{r} 1172 \\ 8 \overline{)9376} \\ \underline{8} \\ 13 \\ \underline{8} \\ 57 \\ \underline{40} \\ 172 \\ \underline{160} \\ 12 \\ \underline{8} \\ 4 \end{array}$$

1172

Write a number that could go in section B

square but not a multiple
of 5
any of
1, 4, 9, 16, 36, 49, ...

	multiple of 5	not a multiple of 5
square number	A	B
not a square number	C	D

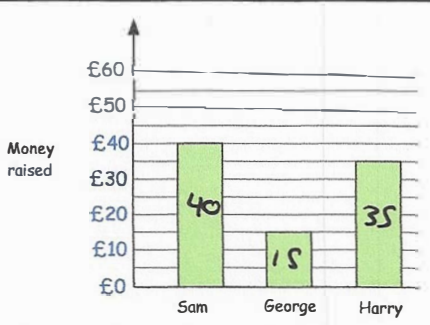
Miss Jones prepares a picnic for her class.
Each child will get:

- 2 sandwiches
- 5 carrot sticks
- 7 grapes
- 1 drink

Altogether Miss Jones packs 40 sandwiches.
How many grapes does she pack?
 $40 \text{ sandwiches} = 20 \text{ children}$
 $20 \times 7 = \underline{140} \text{ grapes}$

Work out the mean amount of money raised.

$$\begin{aligned} 40 + 15 + 35 \\ = 90 \\ 90 \div 3 = \underline{\underline{\pounds 30}} \end{aligned}$$



Name: Ames

5-a-day

Gold



31st August

0.9×10

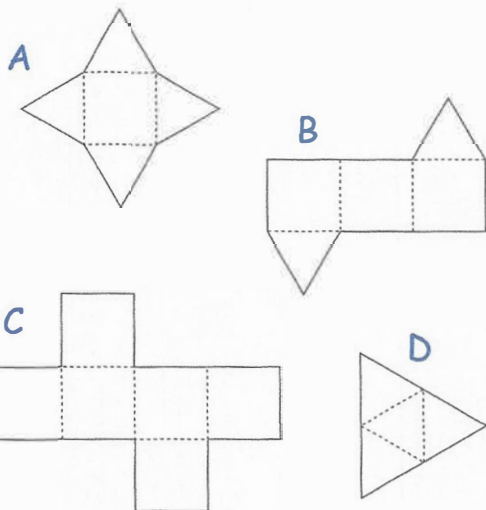
Grid area for calculation. A box contains the answer: 9

68×23

```
  68
x 23
----
 204
1360
----
1564
```

Grid area for calculation. A box contains the answer: 1564

Here are some nets



Which letter is the net of a cuboid?

C

Which letter is the net of a square-based pyramid?

A

Here are four digit cards



Use each digit card once to make the decimal number nearest to 40

