

Name: Anwen

5-a-day

Gold



1st May

Simplify  $\frac{21}{28}$

$\frac{3}{4}$

$$\begin{array}{r} 143 \\ 30 \overline{) 42990} \end{array}$$

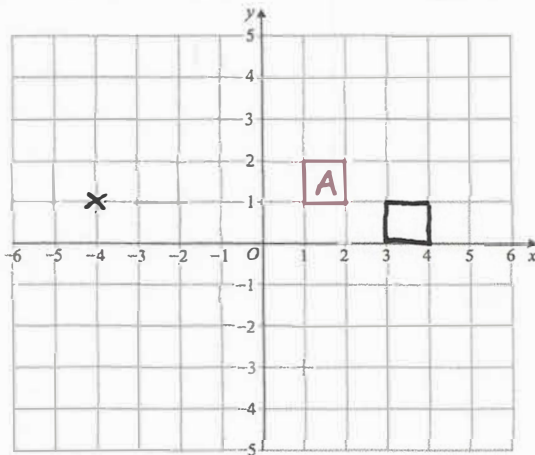
143

Which is larger?

78% or 0.8

80%

0.8



The square A is translated 2 **right** and 1 **down**

Draw the square in its new position

Plot the point  $(-4, 1)$

Name: \_\_\_\_\_

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2nd May

50% of 618

309

$$\frac{2}{3} + \frac{5}{9}$$

$$\frac{6}{9} + \frac{5}{9} = \frac{11}{9} \text{ or } 1\frac{2}{9}$$

1  $\frac{2}{9}$ 

James and Jack buy 3 kilograms of chocolate

Each boy eats 80 grams of chocolate.

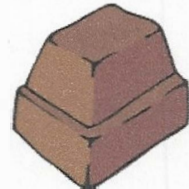
How much chocolate is left?

$$2 \times 80 = 160g$$

$$= 0.16kg$$

$$3 - 0.16$$

$$= \underline{\underline{2.84kg}}$$



Write a number that could go in section C

5, 15, 10, 20, 30...

	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  
9 grapes  
1 drink

Altogether Miss Jones packs 30 sandwiches.

How many grapes does she pack?

30 sandwiches = 15 children

$$15 \times 9 = \underline{\underline{135}}$$

Name: Andrews

5-a-day

Gold



3rd May

$$5 \times \frac{1}{12}$$

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

$$\begin{array}{r} 20 \quad 2 \quad 5 \quad 9 \quad 3 \\ - 1 \quad 3 \quad 4 \quad 1 \quad 8 \\ \hline 7 \quad 9 \quad 1 \quad 8 \quad 5 \end{array}$$

$$79185$$

List the first 5 square numbers

1, 4, 9, 16, 25

Round 576,492 to the nearest 10,000

580,000

Round 576,492 to the nearest 1,000

576,000

Write the two missing digits to make this long multiplication correct

$$\begin{array}{r} 7 \quad \boxed{8} \\ \times \quad \boxed{3} \quad 8 \\ \hline 6 \quad 2 \quad 4 \\ 2 \quad 3 \quad 4 \quad 0 \\ \hline 2 \quad 9 \quad 6 \quad 4 \end{array}$$



<b>4th May</b>	
<p><math>12.8 \times 100</math></p> <div style="border: 1px solid black; width: 150px; height: 40px; margin: 20px auto; text-align: center; font-size: 24px;">1280</div>	<p><math>3 \times \square = 9,000 - 252</math></p> $9000 - 252 = 8748$ $\begin{array}{r} 2916 \\ 3 \overline{) 8748} \end{array}$ <div style="border: 1px solid black; width: 150px; height: 40px; margin: 20px auto; text-align: center; font-size: 24px;">2916</div>
<p>What type of triangle is shown?</p> <p style="font-size: 24px; text-align: center;">Scalene</p>	
<p>Reflect the triangle in the mirror line</p>	<p>Nicola takes part in a quiz.</p> <p>Each correct answer is worth 150 points.</p> <p>Each incorrect answer is worth -60 points.</p> <p>Nicola answers 2 questions correctly and 8 questions incorrectly.</p> <p>How many points does Nicola finish with?</p>
	$2 \times 150 = 300$ $-60 \times 8 = -480$ $\underline{\underline{-180}}$

Name: Answers

5-a-day

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5th May

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

$$\frac{6}{10} \text{ or } \frac{3}{5}$$

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

$$90.5 + 47.68 + 0.09$$

$$\begin{array}{r} 90.5 \\ 47.68 \\ 0.09 \\ \hline 138.27 \end{array}$$

0.8 metres =  centimetres

345 millimetres =  centimetres

Circle the prime numbers

(13) (23) 33 (43) (53) 63

Jessica buys a book and a pen for £5



Jaymin buys the same book and 3 pens for £8



Calculate the cost of a book

$$2 \text{ pens cost } \pounds 3$$

$$\therefore 1 \text{ pen costs } \pounds 1.50$$

$$\therefore \text{book costs } \pounds 3.50$$

Name: Answer

5-a-day

Gold



6th May

$-51 + 20$

-31

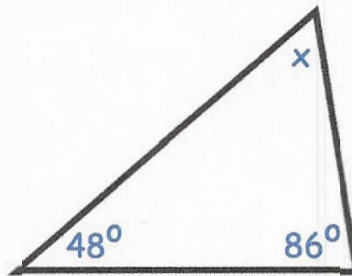
30% of 40

$10\% = 4$   
 $30\% = 12$

12

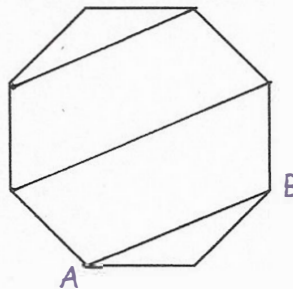
Work out the size of angle x

$48 + 86 = 134$   
 $180 - 134 = \underline{\underline{46^\circ}}$



Here is a regular octagon with two vertices joined to make the line AB.

Join two other vertices to draw a line **parallel** to AB



either is correct

Southville	0630	0650	0720	0745
Leek	0703	0715	0751	0810
Milton	0824	0835	0920	0940

1h 54    1h 45    2h    1h 55

The timetable shows the times of trains from Southville to Milton.

Chloe lives in Southville and works in Milton.

Chloe wants to catch the train that takes the shortest time.

What time train should she catch?

0650

Name: Answers

5-a-day

Gold



7th May

$$\begin{array}{r}
 88993 \\
 + 88457 \\
 \hline
 177450
 \end{array}$$

177450

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

1

Aidan earns £14 an hour.

He works 17 hours in one week.

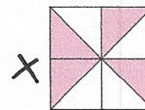
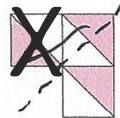
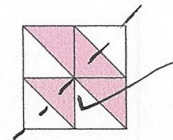
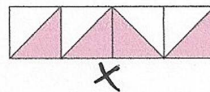
He gives  $\frac{1}{10}$  of his total pay to his dad

How much money does he give to his dad?

$$14 \times 17 = \cancel{238}$$

$$238 \div 10 = \underline{\underline{\pounds 23.80}}$$

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



Joshua has £2 to spend on oranges.  
Small oranges cost 15p each  
Large oranges cost 25p each

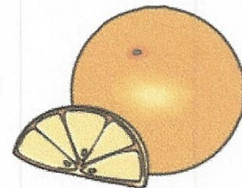
He decides to buy only small oranges or only large oranges.

How many **more** small oranges than large oranges can he buy for £2?

$$\cancel{\pounds} 2 \div 0.25 = 8$$

$$\cancel{\pounds} 2 \div 0.15 = 13.3$$

$$13 - 8 = \underline{\underline{5}}$$





8th May

$$7\frac{3}{5} = \frac{38}{5}$$

$$5 \times 7 + 3 = 38$$

38

$$34 \times 23$$

$$\begin{array}{r} 34 \\ \times 23 \\ \hline 102 \\ 680 \\ \hline 782 \end{array}$$

782

Find the mean of this set of numbers

7, 2, 5, 3, 13, 8, 8, 9, 10, 4

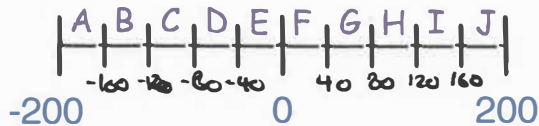
6.9

$$\text{total} = 69$$

$$\frac{69}{10} = 6.9$$

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
199	J
25	F
-86	C

Ella is making rice

The recipe says he needs 270 grams of rice for 4 people.

How many **kilograms** of rice does she need for 16 people?

$$\begin{array}{r} 270 \\ \times 4 \\ \hline 1080 \text{ g} \end{array}$$

1.08 kg



Name: Answer

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9th May

$$5^2 = 25$$

2

$$\frac{7}{8} - \frac{1}{2}$$

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

$\frac{3}{8}$

Ava bought three cups of tea.

She pays with a £20 note.  
Her change is £16.22

What is the cost of **four** cups of tea?

£5.04

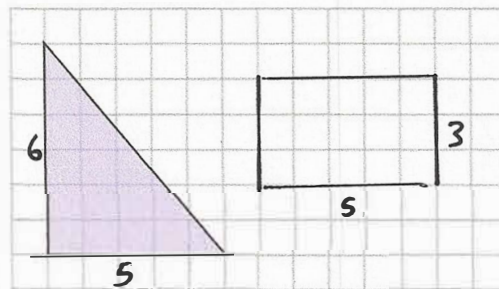
$$20 - 16.22 = \pounds 3.78$$

$$3.78 \div 3 = \pounds 1.26 \text{ (1 cup)}$$

$$\pounds 1.26 \times 4 = \pounds 5.04$$

Draw a rectangle on the grid with the same area as the triangle

$$\text{area} = \frac{6 \times 5}{2} = 15 \text{ cm}^2$$



The factors of 17 have a sum of 18.

Find the other number whose factors have a sum of 18.

10

(10 has factors 1, 2, 5 and 10)

Name: Answer

5-a-day

Gold



10th May

$0.08 \times 10$

0.8

25% of 1,432

50% - 716

25% - 358

358

List the first 5 cube numbers

1, 8, 27, 64, 125

Work out  $\frac{3}{4}$  of £15

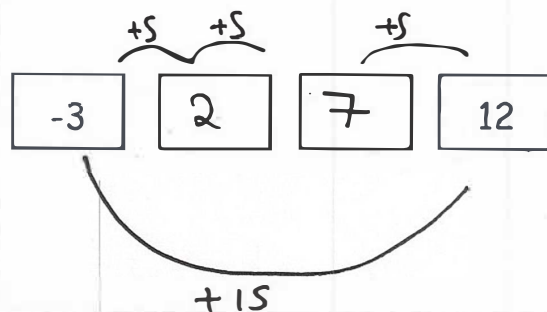
$15 \div 4 = 3.75$

$3.75 \times 3 = \underline{\underline{11.25}}$

Kate makes a sequence of numbers.

Her rule is to add the same amount each time

Write in the missing numbers



Name: Answers

5-a-day

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11th May

$$\begin{array}{r} 7 \overline{) 42} \\ \underline{42} \\ 0 \end{array}$$
$$\begin{array}{r} 9 \overline{) 54} \\ \underline{54} \\ 0 \end{array}$$

9

$$9086 \div 7$$

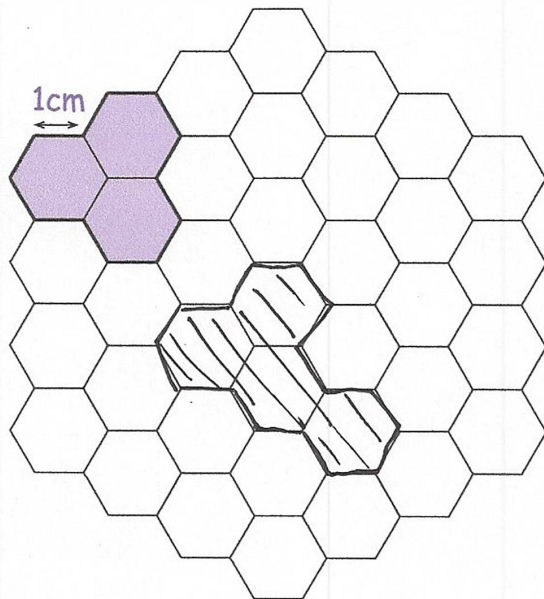
$$\begin{array}{r} 1298 \\ 7 \overline{) 9086} \\ \underline{7} \phantom{0} \phantom{8} \phantom{6} \\ \phantom{0} \phantom{0} \phantom{8} \phantom{6} \\ \underline{\phantom{0} \phantom{0} 8} \phantom{6} \\ \phantom{0} \phantom{0} \phantom{0} \phantom{6} \\ \underline{\phantom{0} \phantom{0} \phantom{0} 6} \\ \phantom{0} \phantom{0} \phantom{0} \phantom{0} \end{array}$$

1298

Here is a grid of regular hexagons

The shaded shape has an area of 3 hexagons and perimeter of 12cm.

Draw another shape on the grid which has an **area** of 4 hexagons and a **perimeter** of 16cm



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

Sarah has £2.10 in 2p coins.

How much money does Sarah have in total?

$$\begin{array}{l} 210p \div 2 = 105 \text{ 2p's} \\ 105 \times 5 = 525p \\ \therefore \text{total } 525 \\ \quad + 210 \\ \hline \text{£7.35} \end{array}$$



12th May

$0.008 + 0.55 + 0.093$

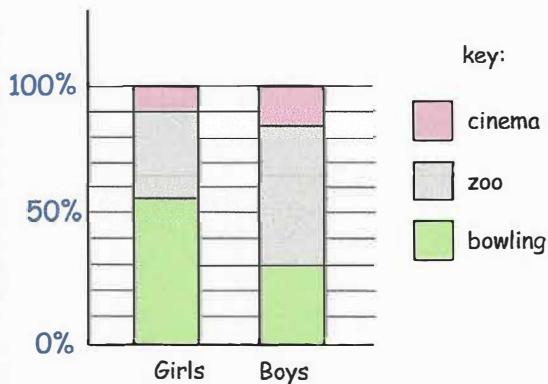
$$\begin{array}{r} 0.008 \\ 0.55 \\ 0.093 \\ \hline 0.651 \end{array}$$

0.651

$$\begin{array}{r} 1606 \\ 6 \overline{) 9636} \end{array}$$

1606

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?

$90 - 55 = 35\%$   
35%

12 boys wanted to go bowling.

Estimate how many boys wanted to go to the cinema.

$12 = 30\%$   
 $6 = 15\%$       6

Four friends are in a race.

Alice is 5 metres ahead of Barry

Clara is 10 metres behind Dylan

Barry is 3 metres behind Dylan

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

Alice  
Dylan  
Barry  
Clara



13th May

$$\frac{3}{4} \times 12$$

$$12 \div 4 = 3$$

$$3 \times 3 = 9$$

9

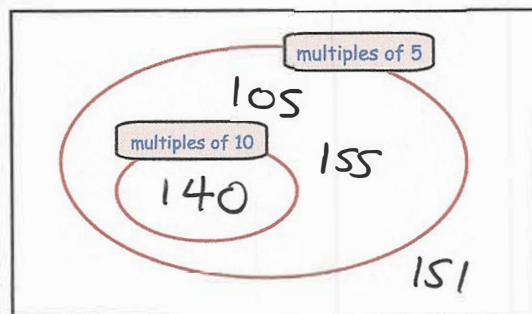
$$70,925 + 120,406$$

$$\begin{array}{r} 70925 \\ + 120406 \\ \hline 191331 \end{array}$$

191,331

Place these numbers in the correct position on the Venn diagram

105 140 151 155



0.8    20%     $\frac{3}{4}$     0.43  
 30%    75%    43%

Write the numbers above in order, starting with the smallest

20%    0.43     $\frac{3}{4}$     0.8

Emily is half as tall as his mother.

Emily is 75cm shorter than her father.

Emily's father is 1.7m tall.

How many centimetres tall is Emily's mother?

$$\begin{aligned} \text{Father } & 1.70\text{m} \\ \text{Emily } & 1.70 - 0.75 = 0.95\text{m} \\ \text{Mother } & 0.95 \times 2 = 1.90\text{m} \\ & = \underline{190\text{cm}} \end{aligned}$$



14th May

Simplify  $\frac{25}{30}$

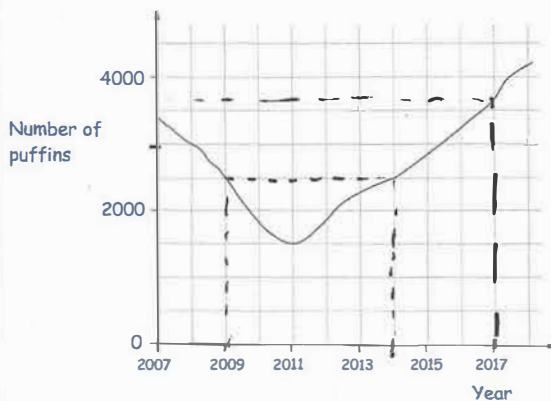
$\frac{5}{6}$

$705 \times 21$

$$\begin{array}{r} 705 \\ \times 21 \\ \hline 705 \\ 14100 \\ \hline 14805 \end{array}$$

14805

This graph shows the number of puffins living on an island



How many puffins lived on the island in 2017?

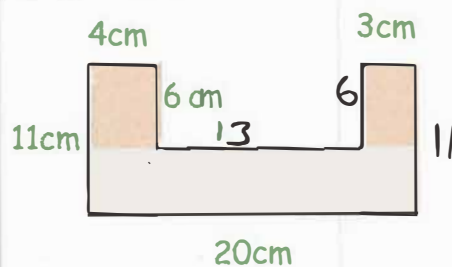
3700 (approx)

In what year was the number of puffins the same as 2009?

2014

Work out the perimeter of this shape

74cm



Name: Answers

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Gold



15th May

$20 \div 100$

0.2

$90 \times 32 = 300 + \square$

$$\begin{array}{r} 90 \\ \times 32 \\ \hline 180 \\ 2700 \\ \hline 2880 \end{array}$$

$$\begin{array}{r} 2880 \\ - 300 \\ \hline 2580 \end{array}$$

2580

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

Jonah 19.23 seconds <sup>3rd</sup>  
Noah 19.4 seconds  
Jeremy 19.09 seconds <sup>1st</sup>  
David 19.155 seconds <sup>2nd</sup>  
Alan 19.38 seconds

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

Who won the bronze medal?

Jonah

Write down **all** the common multiples of 4 and 6 less than 50.

24, 12, 36, 48

How many hours are there in the month of August?

$31 \times 24 = 744$

$$\begin{array}{r} 31 \\ \times 24 \\ \hline 124 \\ 620 \\ \hline 744 \end{array}$$





16th May

$$\frac{1}{2} - \frac{1}{6}$$

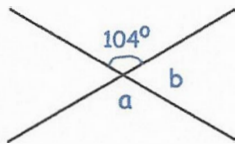
$$\frac{3}{6} - \frac{1}{6} = \frac{2}{6}$$

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

$$18^2$$

$$\begin{array}{r} 18 \\ \times 18 \\ \hline 144 \\ 180 \\ \hline 324 \end{array}$$

324



Write down the size of angle a

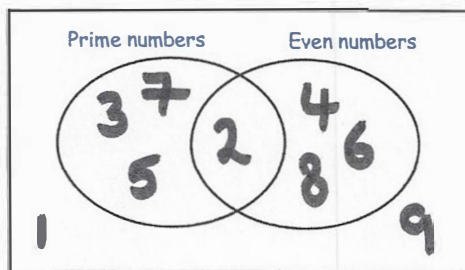
$$a = 104^\circ$$

Work out the size of angle b

$$b = 180 - 104 = \underline{76^\circ}$$

Write each number in its correct place on the diagram

1 2 3 4 5 6 7 8 9



Write 700 in Roman numerals

DCC

Name: \_\_\_\_\_

Primary 5-a-day

Gold



17th May

$2^3$

Grid area for the calculation of  $2^3$ .

8

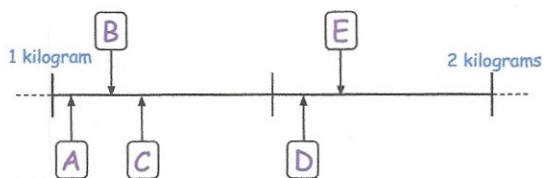
$5.1 - 1.305$

Grid area for the subtraction calculation.

$$\begin{array}{r} 4\ 10\ 9 \\ 5.1\ 0\ 0 \\ - 1.3\ 0\ 5 \\ \hline 3.7\ 9\ 5 \end{array}$$

3.795

Here are five letters on a scale



Match each letter to one of the masses in the list

1550 g

D

1.08 kg

A

1.6 kg

E

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

C

1100 g

B

Work out the width of the rectangle

**18cm**

$126\text{cm}^2$  ? 7cm

Name: \_\_\_\_\_

5-a-day

Gold



18th May

$$8,005 \div 5$$

$$\begin{array}{r} 1601 \\ 5 \overline{) 8005} \\ \underline{5} \phantom{00} \\ 30 \phantom{0} \\ \underline{25} \phantom{0} \\ 50 \\ \underline{50} \\ 0 \end{array}$$

1601

$$63 \times 52$$

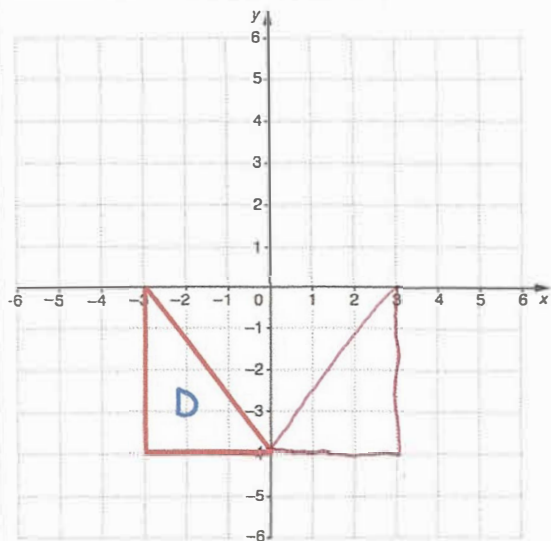
$$\begin{array}{r} 63 \\ \times 52 \\ \hline 126 \\ 3150 \\ \hline 3276 \end{array}$$

3276

Find the area of triangle D

$$\frac{3 \times 4}{2} = 6$$

Reflect triangle D in the y-axis



Three whole numbers add up to 40.

Magnus says,

"All three numbers are odd."

Is Magnus correct?



No 3 odd numbers  
would add to  
an odd number





20th May

$90,000 \div 100$

Handwritten answer:  $900$

$$\begin{array}{r} 97 \\ \times 91 \\ \hline 97 \\ 8730 \\ \hline 8827 \end{array}$$

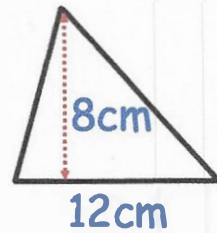
Handwritten answer:  $8827$

Work out the area of the triangle

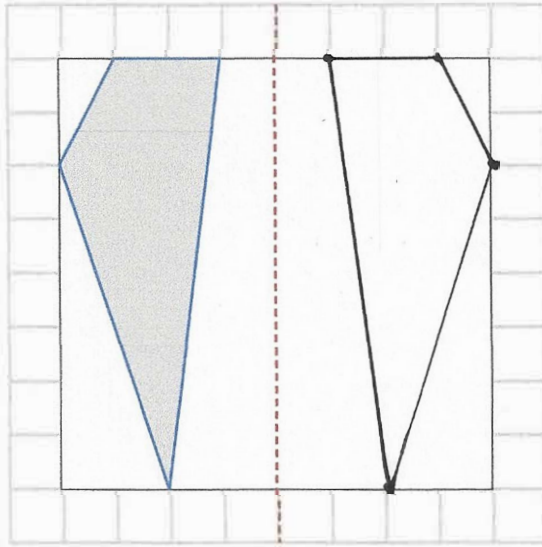
$12 \times 8 = 96$

$96 \div 2 = 48$

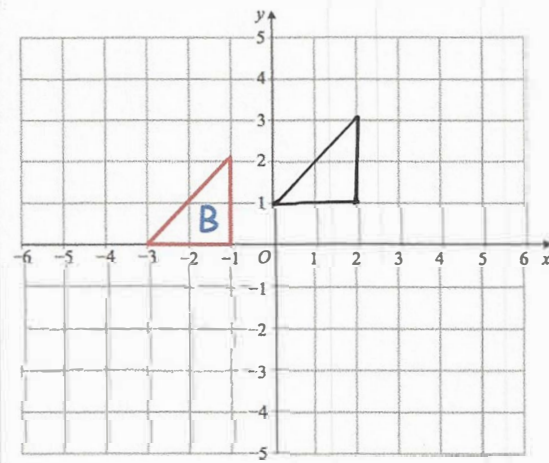
$\text{Area} = 48\text{cm}^2$



Reflect the shape in the red mirror line



Translate triangle B 3 squares **right** and 1 square **up**



Name: \_\_\_\_\_

5-a-day

Gold



21st May

$$\frac{6}{13} = \frac{30}{\square}$$

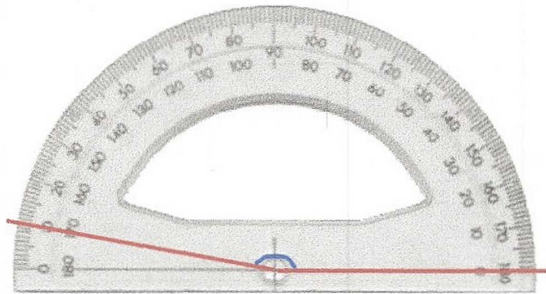
65

$$\begin{array}{r} 39109 \\ 40101 \\ - 15243 \\ \hline 24858 \end{array}$$

24858

What size is the angle shown?

170°



Cheese  
£1.20 per 100g

Work out the cost of 350g of cheese

$$\begin{array}{r} 1.20 \times 3 = 3.60 \\ + 0.60 \\ \hline 4.20 \end{array}$$

Three single-digit numbers multiply to make 567

Write the missing numbers

$$\boxed{9} \times \boxed{9} \times \boxed{7} = 567$$



22nd May

20% of 600

Handwritten calculation on grid paper:

$$\begin{array}{r} 10\% = 60 \\ \underline{60} \\ 120 \end{array}$$

Answer box: 120

Handwritten long division on grid paper:

$$\begin{array}{r} 0109 \\ 20 \overline{) 22180} \end{array}$$

Answer box: 109

A shop sells croissants in packs of 2 or packs of 3.

A 2 pack of croissants costs £1.12  
A 3 pack of croissants costs £1.71

Which size of pack is better value for money?

2 pack

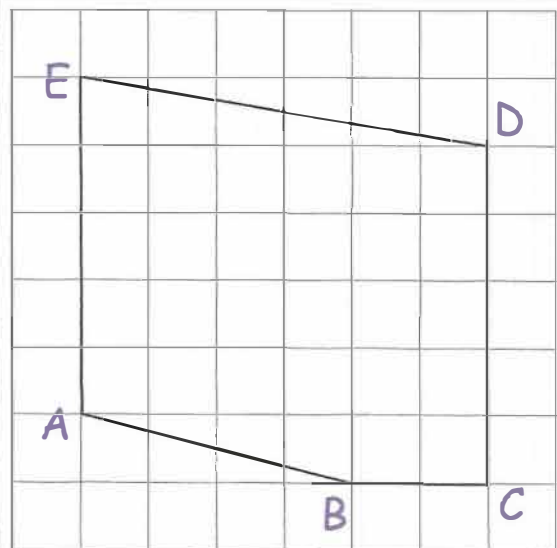
$$1.12 \div 2 = 0.56$$

$$1.71 \div 3 = 0.57$$



Which two lines are **parallel**?

AB BC CD DE EA



Which two lines are **perpendicular**?

AB BC CD DE EA



23rd May

Simplify  $\frac{4}{10}$ 

$$\frac{4}{10} \div \frac{2}{2} = \frac{2}{5}$$

$\frac{2}{5}$

194,030 + 24,480

$$\begin{array}{r} 194030 \\ + 24480 \\ \hline 218510 \end{array}$$

218,510

List the first 5 prime numbers

2, 3, 5, 7, 11

These two rectangles have the same area.

Find the length of the second rectangle.

$$96 \div 6 = 16 \text{ cm}$$

12cm



6cm



Olivia chooses a whole number

She multiplies it by 6 and then adds 12

She then divides this result by 4.

Her answer is 7.5

What was the number she started with?

$$7.5 \times 4 = 30$$

$$- 12 = 18$$

$$\div 6 = 3$$

3

Name: \_\_\_\_\_

5-a-day

Gold



24th May

$$\frac{1}{20} \times 7$$

$$\frac{7}{20}$$

$$40 - 20.63$$

$$19.37$$

There have been 20 Football World Cup finals before 2018.

- Germany have one one-fifth of the finals.
- Argentina and Uruguay have won the same number of World Cups.
- England, France and Spain have won the World Cup once.
- Italy has won the World Cup twice as many times as Uruguay.
- Brazil has won the World Cup the most times.

Complete the table.

Country	Number of World Cup wins
Argentina	2
Brazil	5
England	1
France	1
Germany	4
Italy	4
Spain	1
Uruguay	2

There are 12 questions in a quiz.

For questions 1 to 4 you score 3 marks for each correct answer  
-2 for each incorrect answer.

For the rest of the questions you score 5 marks for each correct answer  
-3 for each incorrect answer

What is the difference between the highest possible score and the lowest possible score?

$$12 \times 3 = 36$$

$$-8 \times -2 = -16$$

$$36 - 16 = 20$$

Name: Answers

5-a-day

Gold



25th May

$$80\% = \frac{80}{100}$$

$$\frac{80}{100} \text{ or } \frac{8}{10} \text{ or } \frac{4}{5}$$

$$\frac{4}{5}$$

$$16 \times 13 \times 3$$

$$13 \times 3 = 39$$

$$\begin{array}{r} 39 \\ \times 16 \\ \hline 390 \\ 234 \\ \hline 624 \end{array}$$

$$624$$

A bag contains red and yellow sweets.  
There are 20 sweets altogether.  
9 of the sweets are red.

What fraction of the sweets are yellow?

$$\frac{11}{20}$$

$$20 - 9 = 11 \text{ yellow}$$

Work out the size of angle x

$$\begin{array}{r} 360 - 244 \\ = \underline{\underline{116}} \end{array}$$

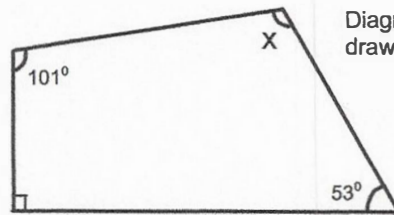
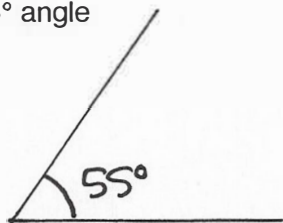


Diagram not drawn accurately

$$101 + 90 + 53 = 244$$

Draw a 55° angle



Name: Anous

5-a-day

Gold



26th May

$750 \div 100$

7.5

$\frac{1}{3} + \frac{1}{3} + \frac{1}{9}$

$$\frac{3}{9} + \frac{3}{9} + \frac{1}{9} =$$

7/9

Round 18.74 to the nearest whole number

19

Round 18.74 to 1 decimal place

18.7

The numbers in this sequence **decrease** by the same amount each time

702,440    701,440    700,440

What is the next number in the sequence?

699 440

Write these fractions in order, starting with the **smallest**.

$\frac{3}{4}$      $\frac{4}{5}$      $\frac{5}{8}$   
0.75    0.8    0.625

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



27th May

50% of 15

Grid area for the first problem. The answer  $7.5$  is written in a box at the bottom right.

$1,300 \div 25$

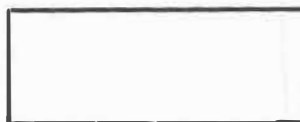
Grid area for the second problem. A long division calculation is shown:  $25 \overline{) 1300} = 52$ . The answer  $52$  is written in a box at the bottom right.

The perimeter of this rectangle is 25cm

Calculate the length of the rectangle

8.5cm

4cm



$25 \div 2 = 12.5$     $12.5 - 4 = 8.5$

Tick the two numbers that are equivalent

to  $\frac{3}{5}$

35%

$\frac{30}{50}$

0.35

0.6

A box contains trays of apples.

There are 25 apples in a tray.

There are 3 trays in a box.

A shop buys 30 boxes of apples.

How many apples does the shop buy?

$25 \times 3 = 75$  per box

$30 \times 75 = 2250$





28th May

$32 \times 32$

Handwritten multiplication on a grid:

$$\begin{array}{r} 32 \\ \times 32 \\ \hline 64 \\ 960 \\ \hline 1024 \end{array}$$

1024

$\square \div 100 = 0.6 \times 10$   
 $(= 6)$

600

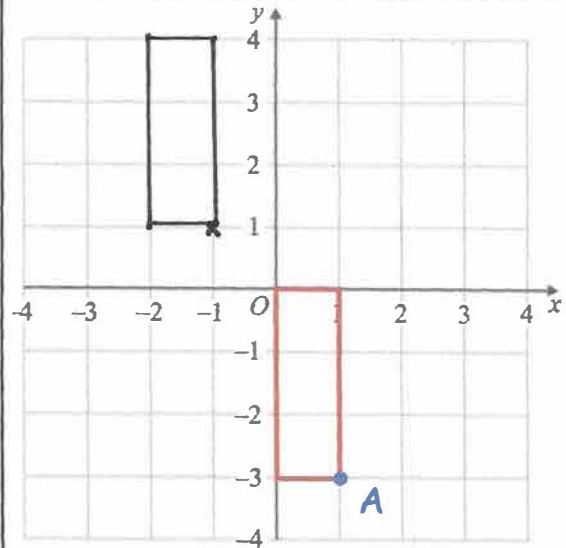
List all the factors of 28

1, 2, 4, 7, 14, 28

Here is a rectangle on a grid.

The rectangle is translated so that the point A moves to (-1, 1).

Draw the rectangle in its new position



Name: Answers

5-a-day

Gold



29th May

$$3\frac{4}{7} = \frac{25}{7}$$

25

$$12^2 = 144$$

12

20% of the teachers in a school wear glasses.

A school has 30 teachers.

How many teachers wear glasses?

6

$$20\% \text{ of } 30 = 2 \times 3 = 6$$

Gareth wants to use a mental method to calculate  $243 - 98$

He starts with 243

Here are some methods that Gareth could use.

Tick the methods that are **correct**

add 2 then subtract 90

subtract 100 then add 2

subtract 8 then subtract 90

subtract 2 then subtract 100



30th May

$10^3$

1000

$7.529 + 9.68$

$$\begin{array}{r} 7.529 \\ 9.68 \\ \hline 17.209 \end{array}$$

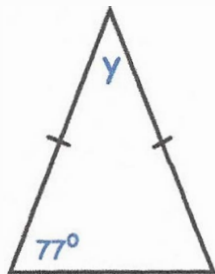
17.209

Write down all the common factors of 12 and 30

1, 2, 3, 6

12: 1, 2, 3, 4, 6, 12

30: 1, 2, 3, 5, 6, 10, 15, 30



Work out the size of angle y

$77 + 77 = 154$

$180 - 154 = 26$

$y = 26^\circ$

There are 22 pupils in a class.

The teacher has 10 litres of water.

She pours 240 millilitres of water for every pupil.

How much water is left over?



$240 \times 22 = 5280 \text{ ml}$

$= 5.28 \text{ litres}$

$10 - 5.28 = \underline{4.72 \text{ litres}}$

Name: Answer

5-a-day

Gold



31st May

Simplify  $\frac{18}{27}$

$$\frac{18}{27} = \frac{6}{9} = \frac{2}{3}$$

$\frac{2}{3}$

$5,000,000 \div 1,000$

5000

1450 centimetres =  $\boxed{14.5}$  metres

0.07 kilograms =  $\boxed{70}$  grams

Donal has £600.  
He spends 15% of his money on a guitar.  
How much does Donal spend on the guitar?

£90

$$\begin{array}{r} 10\% \text{ is } 60 \\ 5\% \text{ is } 30 + \\ \hline 90 \end{array}$$

Lindsey buys five football tickets.  
Three of his tickets cost £24  
The other two tickets cost £34  
What was the **mean** cost of the tickets?

£28

$$\begin{array}{r} 3 \times 24 = 72 \\ 2 \times 34 = 68 \\ \hline 140 \\ 140 \div 5 = 28 \end{array}$$