

Name: _____

5-a-day

Platinum



1st April

$$910 \div 26$$

$$\begin{array}{r} 035 \\ 26 \overline{) 910} \end{array}$$

35

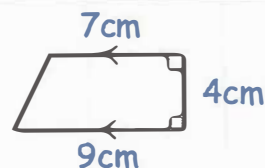
$$1.82 \times 23$$

$$\begin{array}{r} 1.82 \\ \times 23 \\ \hline 546 \\ 3640 \\ \hline 4186 \end{array}$$

41.86

Work out the area of the trapezium

$$\begin{aligned} 9+7 &= 16 \\ 16 \div 2 &= 8 \\ 8 \times 4 &= 32 \text{ cm}^2 \end{aligned}$$



A company is holding a charity concert.

800 people work for the company.
35% of the people who work for the company goes to the concert.

The cost of each ticket is £16.

How much money will be raised for charity?

£4480

$$\begin{aligned} 35\% \text{ of } 800 &= 280 \\ 280 \times 16 &= 4480 \end{aligned}$$

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**2nd April**

$$0.08 = \frac{\square}{\square}$$

$$\frac{2}{25}$$

$$424 \times 357$$

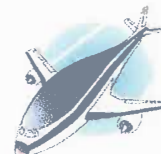
$$\begin{array}{r} 424 \\ \times 357 \\ \hline 2968 \\ 21200 \\ 127200 \\ \hline 151368 \end{array}$$

$$151368$$

A jet flies at 500 miles per hour for 1 hour 30 minutes.

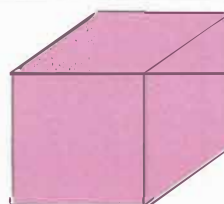
How far does the jet travel?

$$500 \times 1.5 = 750 \text{ miles}$$



Work out the volume of this cube

$$21 \times 21 \times 21 = 9261 \text{ cm}^3$$



21cm

How many sticks are in Pattern 6?



Pattern 1



Pattern 2



Pattern 3



Pattern 4

$$6, 9, 12, 15, 18$$

$$21$$

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3rd April

$$1\frac{3}{4} - 1\frac{1}{7}$$

$$\frac{7}{4} - \frac{8}{7} = \frac{49}{28} - \frac{32}{28}$$

$$\frac{17}{28}$$

$$\begin{array}{r} 0309 \\ 23 \overline{)771207} \end{array}$$

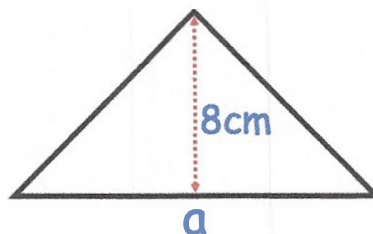
$$309$$

The area of the triangle is 56cm^2 Find a

$$\frac{8a}{2} = 56$$

$$4a = 56$$

$$a = 14$$



Katie chooses a square number.
She multiplies it by 20 and then rounds it to the nearest thousand.

Her answer is 2,000.

Write down all the possible square numbers Katie could have chosen.

$$81, 100, 121$$
 a is an even number b is an odd number

Look at these expressions and decide if they are odd or even

	even	odd
$a + b$	☐	☒
$2a$	☒	☐
b^2	☐	☒

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4th April

$$0.485 = \boxed{48.5\%}$$

$$72 \times 1,098$$

$$\begin{array}{r} 1098 \\ \times 72 \\ \hline 2196 \\ 76860 \\ \hline 79056 \end{array}$$

$$\boxed{48.5\%}$$

$$\boxed{79056}$$

Niall was born in 2015
Naomi was born in 2005

They have the same birthday



The ratio of Niall's age to Naomi's age on their birthday in 2016 was 1:11

What was the ratio Niall's age to Naomi's age on their birthday in 2017?

Write the ratio in its simplest form

$$\begin{array}{l} 2:12 \\ 1:6 \end{array}$$

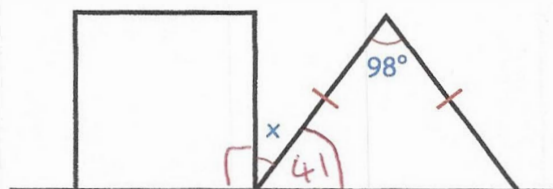
In year is the ratio of Niall's age to Naomi's age 1:2?

$$2025$$

Shown is a square and an isosceles triangle on a straight line.

Find x

$$\begin{array}{l} 90 + 41 = 131 \\ 180 - 131 = 49 \end{array}$$



Name: _____

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5th April

$$\frac{9}{10} \div 3$$

$$\frac{9}{10} \times \frac{1}{3} = \frac{9}{30}$$

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

$$901,888 + 1,989,447$$

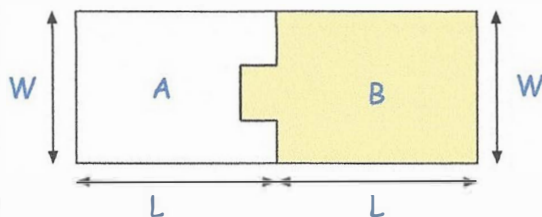
$$\begin{array}{r} 1989447 \\ + 901888 \\ \hline 2891335 \end{array}$$

$$2891335$$

Round 384.456094 to 3 decimal places

384.456

A and B are two shapes that fit together.



Circle the correct statement in each box

The area of A is greater than the area of B

The area of A is equal to the area of B

The area of A is less than the area of B

The perimeter of A is greater than the perimeter of B

The perimeter of A is equal to the perimeter of B

The perimeter of A is less than the perimeter of B

Name: _____

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Platinum



6th April

$$114^2$$

$$\begin{array}{r} 114 \\ \times 114 \\ \hline 456 \\ 1140 \\ 11400 \\ \hline 12996 \end{array}$$

12996

$$40\% \text{ of } 1,650$$

$$\begin{array}{r} 10\% = 165 \\ 165 \\ 165 \\ 165 \\ \hline 660 \end{array}$$

660

Harry and Gita each choose a number.

Harry's number is six times bigger than Gita's number.

The difference between the numbers is 80

What number did Harry choose?

$$6x - x = 80$$

$$5x = 80$$

$$x = 16$$

96

Solve the equation

$$3y - 2 = 37$$

$$3y = 39$$

$$y = 13$$

Cuboid A and Cuboid B have the same volume.

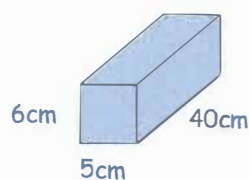
Find y

$$5 \times 6 \times 40 = 1200$$

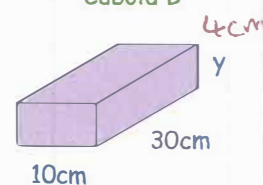
$$30 \times 10 = 300$$

$$1200 \div 300 = 4$$

Cuboid A



Cuboid B



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7th April

15% of 32

$$10\% = 3.2$$

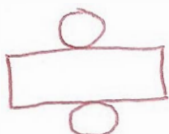
$$5\% = 1.6$$

$$4.8$$

$$\frac{\square}{0.5} = 112$$

$$56$$

Draw the net of a cylinder



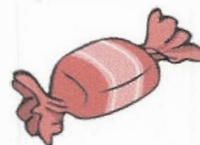
Ed has 24 sweets.

The ratio of green to red sweets is 3:5.

How many red sweets does Ed have? 15

$$24 \div 8 = 3$$

$$3 \times 5 = 15$$



Henrik has 50 centimetre cubes.

He wants to make a cube with edges that are 4cm long.

How many more centimetre cubes does he need?

$$14$$



$$4^3 = 64$$

Name: _____

5-a-day

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8th April

$$8 \times 8 + 8 \times 2$$

$$64 + 16 = 80$$

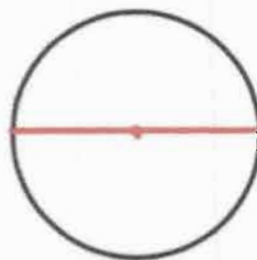


$$\begin{array}{r} 195 \\ \times 163 \\ \hline 585 \\ 11700 \\ 19500 \\ \hline 31785 \end{array}$$

31785

What part of the circle is shown in red?

Diameter



$$10w + 4$$

When $w = 0.5$, the value of $10w + 4$ is a square number because $10 \times 0.5 + 4 = 9$

Write a value for w so that $10w + 4$ is a prime number

0.1

Write down five **different** numbers with a mean of 6.

4 5 6 7 8

Name: _____

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9th April

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

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

$$20 - 3^3$$

$$20 - 27 = -7$$

$$-7$$

At Carlisle bus station, 45% of buses were late in a week.

In that week there were 680 buses.

Work out how many buses were on time.

$$374$$

$$10\% = 68$$

$$50\% = 340$$

$$5\% = 34$$

$$55\% = 374$$

20 £1 coins have a mass of 175 grams

Find the mass of 23 £1 coins.

$$175 \div 20 \times 23 = 201.25g$$



Lisa and Anna each start with the same number.

Lisa rounds the number to the nearest hundred.

Anna rounds the number to the nearest thousand.

Anna's answer is double Lisa's answer.

Explain how this can be.

Any number between 500 and 549 (inclusive), rounds to 500 to the nearest hundred and 1000 to the nearest thousand

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10th April

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

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

4

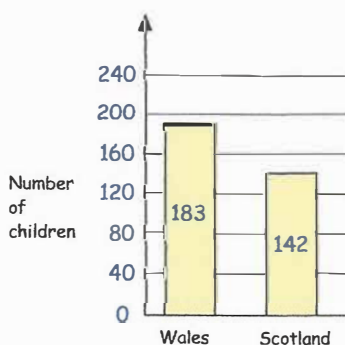
$$7,658 \div 14$$

$$\begin{array}{r} 0547 \\ 14 \overline{) 7658} \end{array}$$

547

The children in year 6 were asked if they had visited Wales, Scotland or both.

The bar chart shows the results.



Altogether there are 251 children in Year 6

How many children visited **both** Wales and Scotland?

$$183 + 142 = 325$$

$$325 - 251 = 74$$

74

Arrange the following in order from smallest to largest

0.13 $\frac{3}{20}$ 12% $\frac{1}{10}$ 0.09

0.09, $\frac{1}{10}$, 12%, 0.13, $\frac{3}{20}$

Name: _____

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11th April

$$35\% = \frac{\square}{\square}$$

$$356 \times 126$$

$$\begin{array}{r} 356 \\ \times 126 \\ \hline 2136 \\ 7120 \\ 35600 \\ \hline 44856 \end{array}$$

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

$$44856$$

Find the missing number



Was £60

Reduced by $\boxed{20\%}$

Now £48

 $\frac{1}{12}$ of a number is 7.What is half of the number? 42

$$7 \times 6 = 42$$

A farmer says he has 1,500 cows to the nearest 100.

What is the smallest possible number of cows that he has?

$$1450$$

Name: _____

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12th April

$$5\% \times 1,400$$

$$10\% = 140$$

$$5\% = 70$$

70

$$0.07 \times 210$$

14.7

Write MMXXIV in figures

2024

The ratio of boys to girls in a class is 2:3

Ben says there are 27 students in the class.

Explain why Ben must be wrong.

 $27 \div 5$ is a decimal.


A 2p coin has a radius of 1.3cm

Jody makes a straight line of 2p coins worth £6

How long is the line?
Give your answer in metres.

7.8m

$$600 \div 2 = 300$$

$$1.3 \times 2 = 2.6$$

$$300 \times 2.6 = 780 \text{ cm}$$

Name: _____

5-a-day

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13th April

$$\frac{5}{6} - \frac{2}{9}$$

$$\frac{15}{18} - \frac{4}{18} = \frac{11}{18}$$

$$\frac{11}{18}$$

$$0.08 \times 14$$

$$1.12$$

For every 3 penalties Jamie takes, he scores 2.

Altogether Jamie scored 18 penalties.

How many did he take?

$$27$$

$$18 \div 2 = 9$$

$$9 \times 3 = 27$$

At the end of a film, the year MMXV is given in Roman numerals.

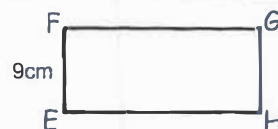
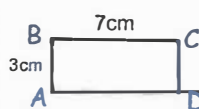
Write MMXV in figures

2015

Here are two similar rectangles.

Work out the length of EH

$$7 \times 3 = 21 \text{ cm}$$



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14th April

$$\frac{2}{3} = \boxed{66.\dot{6} \%}$$

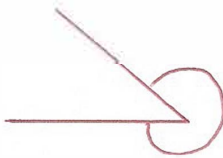
$$12 \times 12 \times 9 \times 9$$

$$\begin{array}{r} 144 \\ \times 81 \\ \hline 144 \\ 11520 \\ \hline 11664 \end{array}$$

%

11664

Draw a 320° angle



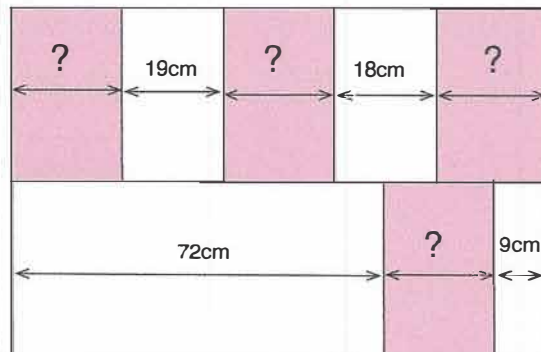
In this diagram, the pink rectangles are all of equal width.

Calculate the width of one of the pink rectangles

$$3x + 37 = x + 72 + 9$$

$$2x = 44$$

$$x = 22$$





15th April

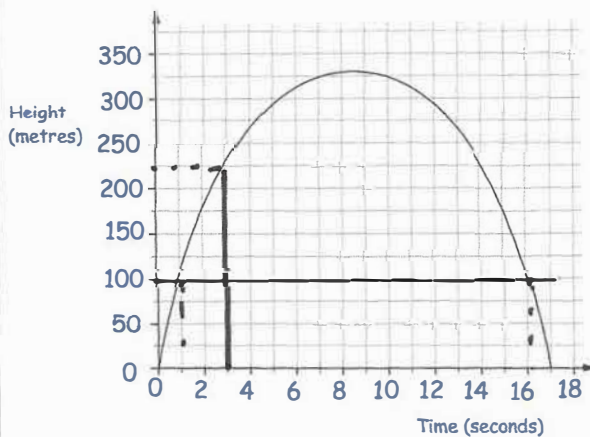
$$40 - \underbrace{16 \div 2}_8$$

32

$$\begin{array}{r} 2994 \\ \times \quad 62 \\ \hline 5988 \\ 179640 \\ \hline 185628 \end{array}$$

185628

This graph shows the height of a drone at different times



Estimate how long the drone was **more than 100 metres** above the ground.

$$\underline{16 - 1 = 15 \text{ seconds}}$$

Estimate how many metres the drone rises in the first 3 seconds of flight.

$$\underline{\text{approx } 225 \text{ m}}$$

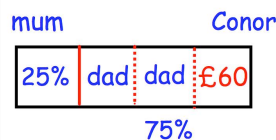
Conor won some money in a raffle.

He gave 25% of the money to his mum.

Conor then gave $\frac{2}{3}$ of the money remaining to his dad.

Conor has £60 left

How much money did Conor give to his mum?



75% of money remaining
 $\frac{2}{3}$ of 75% = 50%

Dad is given 50% of total money.

Conor receives 25% of total

Mum receives 25% of total

Conor gives his mum £60

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16th April

$$2301 \div 59$$

$$\begin{array}{r} 0039 \\ 59 \overline{) 2301} \\ \underline{59} \\ 2301 \\ \underline{2301} \\ 0 \end{array}$$

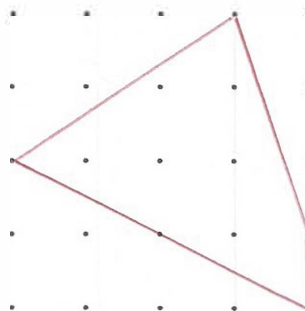
39

$$1\frac{1}{4} \times 18$$

$$\frac{5}{4} \times \frac{18}{1} = \frac{90}{4}$$

$$\frac{45}{2} = 22.5$$

Make a quadrilateral with 3 acute angles

On Monday Dara read $\frac{7}{10}$ of his book.On Tuesday he read the **other** 210 pages to finish his book.

How many pages are there in Dara's book?

700

$$\frac{3}{10} = 210$$

$$\frac{1}{10} = 70$$

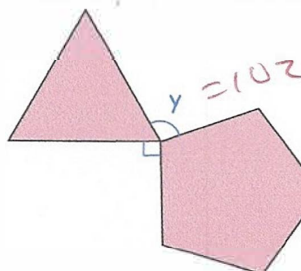
$$\frac{10}{10} = 700$$

Shown is an equilateral triangle and a regular pentagon.

Find y .

$$90 + 60 + 108 = 258$$

$$360 - 258 = 102$$



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17th April

$$35\% \times 2,000$$

$$\begin{aligned} 10\% &= 200 \\ 30\% &= 600 \\ 5\% &= 100 \end{aligned}$$

700

$$0.8 \times 300$$

240

One gram of copper costs \$0.74.

What is the cost of **half a tonne** of copper?

\$370,000

$$1\text{Kg} = 740$$

$$740 \times 500 = 370000$$

The numbers in this sequence increase by the same amount each time.

Find the two missing numbers

$$\frac{1}{3}$$

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

$$2\frac{2}{3}$$

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

$$5$$

Find the value of y in this equation

$$6 + 3y = 42 - 3y$$

$$6y = 36$$

$$y = 6$$

Name: _____

5-a-day

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18th April

$$\frac{2}{3} - \frac{1}{8}$$

$$\frac{2}{3} - \frac{1}{8} = \frac{16}{24} - \frac{3}{24} = \frac{13}{24}$$

$$\frac{13}{24}$$

9% of 600

$$\begin{array}{r} 10\% = 60 \\ 1\% = 6 \end{array}$$

$$54$$

There are 30,000 fans at a football match.
41% of the fans are women.

Work out how many women went to the match.

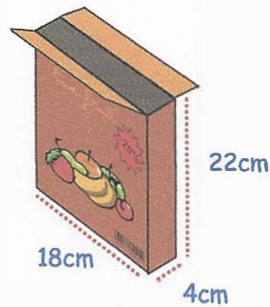
$$12300$$

$$\begin{array}{r} 10\% = 3000 \\ 40\% = 12000 \\ 1\% = 300 \end{array}$$



Find the volume of this box

$$18 \times 4 \times 22 = 1584 \text{ cm}^3$$

**Serves 6 people**

1 kilogram of mince
400 grams of tomatoes
3 chillies
600 grams of kidney beans

Donna uses 3kg of tomatoes.

How many people is she cooking for?

$$\begin{array}{r} 3000 \div 400 = 7.5 \\ 7.5 \times 6 = \underline{45} \end{array}$$

Name: _____

5-a-day

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19th April

$$3\frac{1}{4} + \frac{7}{9}$$

$$\frac{13}{4} + \frac{7}{9} = \frac{117}{36} + \frac{28}{36}$$

$$= \frac{145}{36}$$

$$\frac{145}{36}$$

55% of 850

$$50\% = 425$$

$$5\% = 42.5$$

$$467.5$$

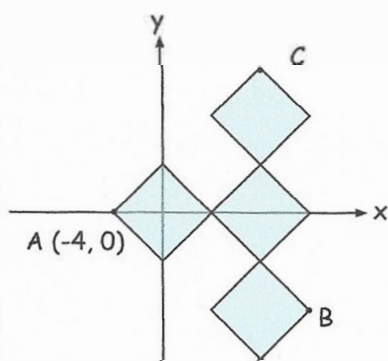
$$4,484 \div 19 = 236$$

Explain how you can use this fact to find the answer to 18×236

$$236 \times 19 = 4484$$

$$4484 - 236 = 4248$$

The diagram shows four identical squares.



A is the point $(-4, 0)$

What are the coordinates of point B?

$$(12, -8)$$

What are the coordinates of point C?

$$(8, 12)$$

Name: _____

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20th April

$$\frac{5}{9} \div 2$$

$$\frac{5}{9} \times \frac{1}{2} = \frac{5}{18}$$

$$\frac{1}{4} + \frac{1}{3} + \frac{1}{10}$$

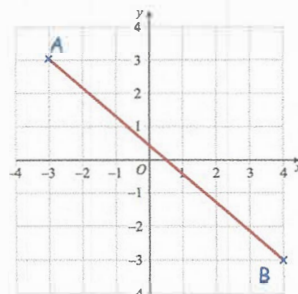
$$\frac{15}{60} + \frac{20}{60} + \frac{6}{60} = \frac{41}{60}$$

$$\frac{41}{60}$$

The point A has coordinates $(-3, 3)$
The point B has coordinates $(4, -3)$

Find the coordinates of the midpoint of the line AB

$$(0.5, 0)$$



Find the LCM of 24 and 30

$$\begin{array}{ll} 24 & 30 \\ 48 & 60 \\ 72 & 90 \\ 96 & 120 \\ 120 & \end{array}$$

$$120$$

Matilda thinks of a number, n .

She adds 2 and then multiplies by 3.

Which expression is correct?

A

$$n + 2 \times 3$$

B

$$3n + 2$$

C

$$(n + 2) \times 3$$

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21st April

$$7,912 \times 38$$

$$\begin{array}{r} 7912 \\ \times 38 \\ \hline 63296 \\ 237360 \\ \hline 300656 \end{array}$$

300656

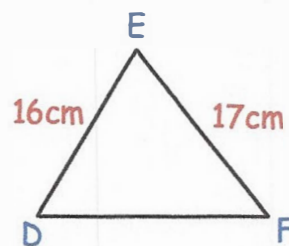
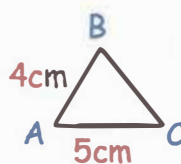
$$90 \overline{) 55580} \begin{array}{l} 0062 \\ 5580 \\ \hline 0000 \end{array}$$

62

Here are two similar triangles.

Work out the length of DF

$$5 \times 4 = 20\text{cm}$$

Not drawn
to scale

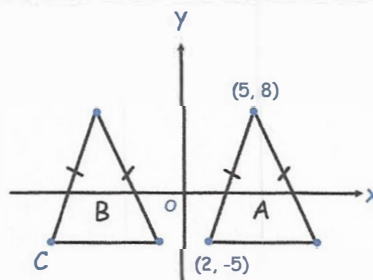
Find the HCF (highest common factor) of 28 and 42

14

Triangle B is a reflection of triangle A in the y-axis.
Both triangles are isosceles triangles.

What are coordinates of point C?

(-8, -5)



Name: _____

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22nd April

$$16.42 \times 9$$

$$\begin{array}{r} 16.42 \\ \times 9 \\ \hline 147.78 \end{array}$$

$$147.78$$

$$1\frac{1}{2} \times 13$$

$$\frac{3}{2} \times \frac{13}{1} = \frac{39}{2}$$

$$\frac{39}{2}$$

A shop charges 12p to photocopy one page in full colour.

Sam has photocopied some pages in colour and the total cost is £16.08

How many pages did he photocopy?

$$1608 \div 12 = 134$$



Under 13's



Under 15's



The Under 13's played 28 matches.
The Under 15's played 18 matches.

Which team won more matches?

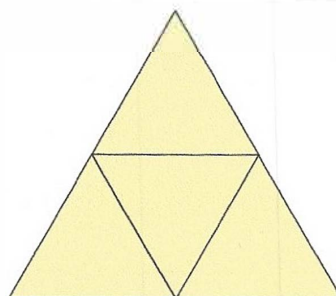
$$28 \div 4 = 7$$

$$18 \div 3 = 6$$

U13's

What 3D shape is this the net for?

Tetrahedron





23rd April

$$65\% \times 2,000$$

$$\begin{aligned} 10\% &= 200 \\ 60\% &= 1200 \\ 5\% &= 100 \end{aligned}$$

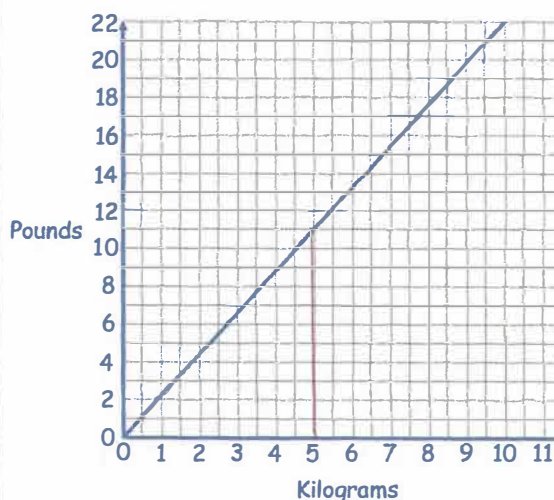
1300

$$2,183 \div 59$$

$$\begin{array}{r} 0037 \\ 59 \overline{) 2183} \\ \underline{177} \\ 413 \\ \underline{354} \\ 59 \\ \underline{59} \\ 0 \end{array}$$

37

This graph helps convert between kilograms and pounds



Using the graph, convert 5 kilograms to pounds

11 pounds

Convert 150 kilograms to pounds

$$150 \div 5 = 30$$

$$30 \times 11 = 330$$

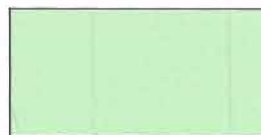
This rectangle is twice as long as it is wide. The perimeter of the rectangle is 42cm

Find the area of the rectangle.

$$6x = 42$$

$$x = 7$$

$$7 \times 14 = 98 \text{ cm}^2$$



2x

x

Name: _____

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24th April

$$374 \div 22$$

$$\begin{array}{r} 017 \\ 22 \overline{)374} \\ \underline{22} \\ 154 \\ \underline{154} \\ 0 \end{array}$$

17

$$0.8 \times 300$$

240

Barry is paid £18,000 each year.

Next year he will be paid 15% more.

How much will Barry be paid next year?

20700

$$10\% = 1800$$

$$5\% = 900$$

$$15\% = 2700$$

In this rectangle, $\frac{1}{3}$ is shaded purple
 $\frac{2}{5}$ is shaded green.



What fraction of the rectangle is not shaded?

$$\frac{1}{3} + \frac{2}{5} = \frac{5}{15} + \frac{6}{15} = \frac{11}{15}$$

$$\frac{4}{15}$$

a	b
1	19
2	23
3	27
4	31

Here is a pattern of number pairs

Complete the **rule** for the number pattern

$$b = \boxed{4} \times a + \boxed{15}$$

Name: _____

5-a-day

Platinum



25th April

$$\frac{7}{8} - \frac{1}{3}$$

$$\frac{21}{24} - \frac{8}{24} = \frac{13}{24}$$

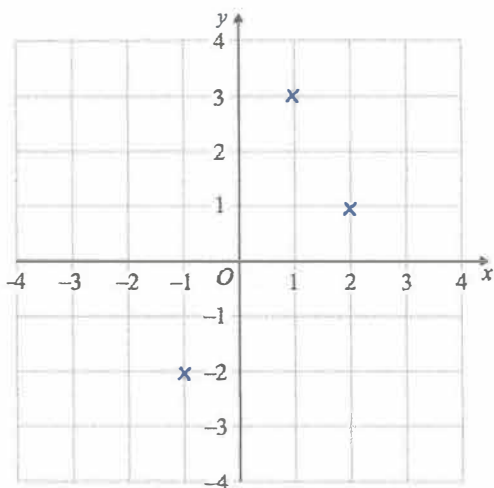
$$\frac{13}{24}$$

13% of 800

$$\begin{array}{r} 10\% = 80 \\ 1\% = 8 \\ \hline 8 \end{array}$$

$$104$$

The coordinates plotted on the grid are three vertices of a parallelogram



Write down the coordinates of the fourth vertex of the parallelogram.

$$(-2, 0)$$

How many lines of symmetry does the parallelogram have?

$$0$$

The ratio of boys to girls in a school is 3:5.

There are 44 more girls than boys at the school.

How many children go to the school?

$$176$$

$$44 \div 2 = 22$$

$$22 \times 3 = 66$$

$$22 \times 5 = 110$$

Name: _____

5-a-day

Platinum



26th April

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

$$\frac{9}{4} - \frac{2}{3} = \frac{27}{12} - \frac{8}{12} = \frac{19}{12}$$

$$\frac{19}{12} = 1\frac{7}{12}$$

$$\frac{5}{9} \div 3$$

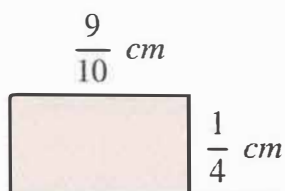
$$\frac{5}{9} \times \frac{1}{3} = \frac{5}{27}$$

$$\frac{5}{27}$$

Draw a 195° angle



Work out the area of this rectangle



$$\frac{9}{10} \times \frac{1}{4} = \frac{9}{40} \text{ cm}^2$$

Bertie is ten years younger than George
Kate is double George's age.

The sum of their ages is 54.

How old is George?

16

$$x + x - 10 + 2x = 54$$

$$4x - 10 = 54$$

$$4x = 64$$

$$x = 16$$



27th April

$$0.28 \times 57$$

$$\begin{array}{r} 28 \\ \times 57 \\ \hline 196 \\ 1400 \\ \hline 1596 \end{array}$$

$$15.96$$

$$85\% \text{ of } 250$$

$$10\% = 25$$

$$25 \times 8 =$$

$$200$$

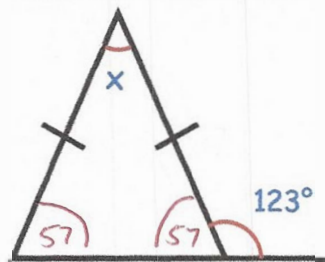
$$5\% = 12.5$$

$$212.5$$

Work out the size of angle x

$$57 + 57 = 114$$

$$180 - 114 = 66$$



Find three different prime numbers that have a sum of 25

3

5

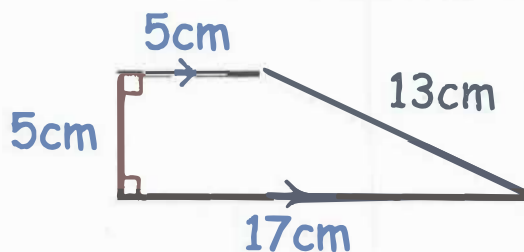
17

Work out the area of this trapezium

$$17 + 5 = 22$$

$$22 \div 2 = 11$$

$$11 \times 5 = 55 \text{ cm}^2$$



Name: _____

5-a-day

Platinum



28th April

$$\frac{8}{9} \div 2$$

$$\frac{8}{9} \times \frac{1}{2} = \frac{8}{18}$$

$$\frac{4}{9}$$

$$\frac{1}{2} + \frac{1}{5} + \frac{1}{3}$$

$$\frac{15}{30} + \frac{6}{30} + \frac{10}{30} = \frac{31}{30}$$

$$1\frac{1}{30}$$

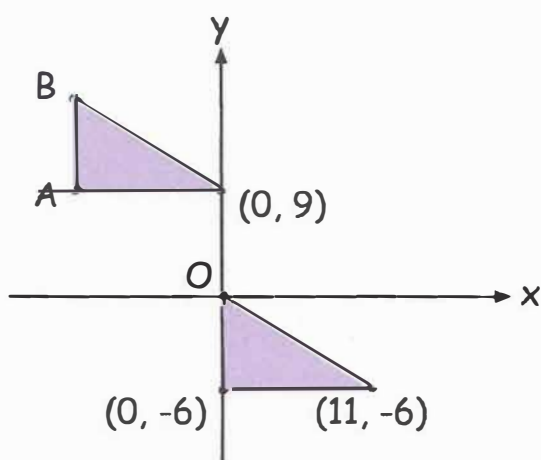
$$y = 9$$

Work out the value of $8y - 15$

$$8 \times 9 = 72$$

$$72 - 15 = 57$$

Here are two identical triangles



What are the coordinates of point A?

$$(-11, 9)$$

What are the coordinates of point B?

$$(-11, 15)$$

Name: _____

5-a-day

Platinum



29th April

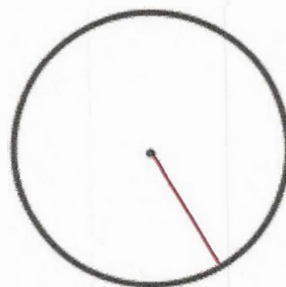
$$93.39401 - 13.4061$$

$$\begin{array}{r} 812 \quad 813 \\ 93.39401 \\ 13.40610 \\ \hline 79.98791 \end{array}$$

$$79.98791$$

$$\begin{array}{r} 3189 \\ \times 24 \\ \hline 12756 \\ 63780 \\ \hline 76536 \end{array}$$

Draw the radius



A bus leaves Antrim Bus Station every 12 minutes.

A train leaves Antrim Train Station every 18 minutes.

At 8am, a bus and a train leave the stations at the same time.

Between 8am and 10am, how many times will a bus and a train leave at the same time?

4



$$8 \quad 8:36 \quad 9:12 \quad 9:48$$

A football pitch is 70 metres wide and has an area of $7,350\text{m}^2$

A rugby pitch is 20 metres longer than the football pitch and is 68 metres wide.

Work out the area of the rugby pitch.

$$7350 \div 70 = 105$$

$$125 \times 68 = 8500\text{m}^2$$

Name: _____

5-a-day

Platinum



30th April

$$\frac{2}{3} \times \frac{1}{5}$$

$$\frac{2}{15}$$

$$\frac{1}{3} = 33.\dot{3} \%$$

$$33.\dot{3} \%$$

Here are the ingredients for fish pie.

500g cod
400g haddock
600ml milk
120g butter
40g flour
1kg potatoes

Summer only has 300g of haddock to make the fish pie.

How much butter should she use?

$$120 \div 4 \times 3 = 90g$$

How much potatoes should she use?

$$1 \div 4 \times 3 = 0.75kg$$

The mean of five numbers is 9.2

Four of the numbers are 8, 10, 12 and 10.

Work out the fifth number.

6

$$9.2 \times 5 = 46$$

$$8 + 10 + 12 + 10 = 40$$