



1st October

 $10^4$ 

10,000

$$\begin{array}{r}
 & 54 \\
 65 & \overline{)3510} \\
 & 325 \\
 \hline
 & 260 \\
 & 325
 \end{array}
 \quad
 \begin{array}{r}
 65 \\
 \times 5 \\
 \hline
 325
 \end{array}$$

54

Work out the highest common factor (HCF) of 24 and 36

12

Charlie's password is made up of six **different** digits.

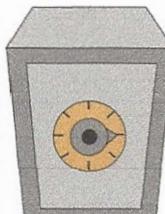
He remembers it as three 2-digit numbers.

The first 2-digits is a square number between 10 and 30.

The second 2-digits is a prime number between 30 and 40.

The third 2-digits is a cube number between 10-99

List all his possible passwords



16 31 27	25 31 27
16 31 64	25 31 64
16 37 27	25 37 27
16 37 64	25 37 64



2nd October

$$\square^2 + 1,600 = 50^2$$

$$\begin{array}{r} 50^2 = 2500 \\ - 1600 = 900 \end{array}$$

$$30^2 = 900$$

30

$$7,014 \div 14$$

$$\begin{array}{r} 501 \\ 14 \overline{)7014} \\ \end{array}$$

501

In 2018, a Zoo had 520,000 visitors.

30% of the people visited in July.

35% of the people visited in August.

How many people visited the Zoo in the rest of the year?

182,000

In this circle, each shaded part is  $\frac{2}{5}$  of the area of the circle.

The two white parts have the same area.

What fraction of the circle is **one** of the white areas?

$$\frac{1}{10}$$

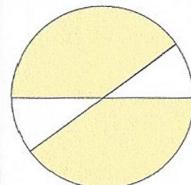
$$100\% - (30\% + 35\%) = 35\%$$

$$10\% = 52,000$$

$$30\% = 156,000$$

$$35\% = 26,000 +$$

$$35\% = 182,000$$

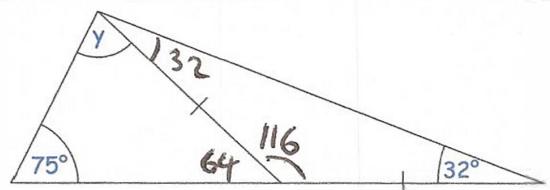


$$\frac{2}{5} \times 2 = \frac{4}{5}$$

$$1 - \frac{4}{5} = \frac{1}{5}$$

$$\text{Half of } \frac{1}{5} = \frac{1}{10}$$

Find the size of angle y

$$41^\circ$$




**3rd October**

$$\frac{7}{8} = 0.875$$

71 × 254

7/8

18034

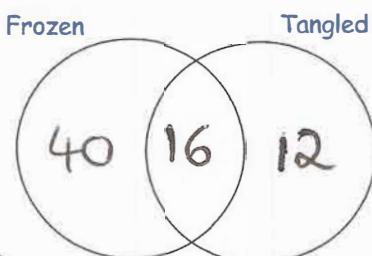
There are 80 children in Year 6.

16 children have watched both the films Frozen and Tangled.

28 children have watched Tangled.

Twice as many children have watched Frozen than Tangled.

How many children have not watched Frozen or Tangled?



$$28 - 16 = 12$$

$$2 \times 28 = 56 \quad 56 - 16 = 40$$

$$40 + 16 + 12 = 68 \quad 80 - 68 = 12$$

What percentage of 20 is 9?

$$\frac{9}{20} = \frac{45}{100} = \underline{\underline{45\%}}$$



4th October

$$\frac{\square}{\square} = 0.05$$

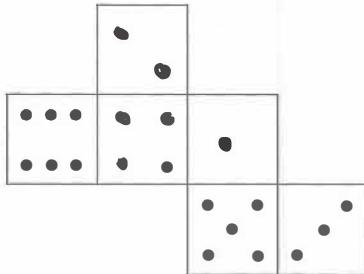
$$20 - 4^2 \\ (16)$$

$$\frac{1}{20}$$

$$4$$

On a dice, the opposite faces always have a sum of 7.

Draw dots on the three empty faces of the net so that it could fold up to make a dice.



This diagram shows a park



Work out the fraction of the park that is the picnic area.

$$\frac{3}{5} + \frac{1}{4} = \frac{12+5}{20} = \frac{17}{20}$$

$$1 - \frac{17}{20} = \frac{3}{20}$$

Work out 10% of  $\frac{1}{2}$

$$0.05 \text{ or } \frac{1}{20}$$

$$0.5 \div 10 = 0.05$$



5th October

$$\frac{4}{5} - \frac{1}{12}$$

$$\frac{48}{60} - \frac{5}{60} = \frac{43}{60}$$

$$\boxed{\frac{43}{60}}$$

40% of 90

$$10\% \text{ of } 90 = 9$$

$$9 \times 4 = 36$$

$$\boxed{36}$$

Lucy, Jenny and Harriet share some money.

Lucy gets  $\frac{1}{3}$  of the money.  $\pounds 16$

Jenny gets  $\frac{1}{4}$  of the money.

Harriet gets the rest of the money.

Lucy gets £16

How much more money does Harriet get than Jenny?  $16 \times 3 = \pounds 48$  (total)

$$\text{Jenny: } 48 \div 4 = \pounds 12$$

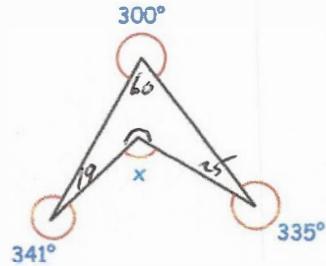
$$\text{Harriet: } \pounds 20 \quad \pounds 8 \text{ more}$$

Find the size of angle x

$$60 + 19 + 25 = 104$$

$$360 - 104 = 256$$

$$360 - 256 = \underline{\underline{104^\circ}}$$



729 is both a square number and a cube number.

Find two other numbers that are both square numbers and cube numbers

$$1, 64$$



6th October

$$3,276 \div 13$$

$$13 \overline{)3276} \overline{)252}$$

252

$$(10 - 4)^2$$

$$6^2 = 36$$

36

What is the smallest possible number Timothy could be thinking of?

550

I am thinking of a whole number.  
Rounded to the nearest 100  
it is 600.



What is the largest possible number Timothy could be thinking of?

649

For every 5 50p coins, Laura has 4 20p coins.

Laura has £56.00 in 20p coins.

How much money does Laura have altogether?

$$\frac{\$56}{0.2} = 280 \text{ 20ps}$$

$$280 \div 4 \times 5 = 350 \text{ 50ps}$$

$$350 \times 0.50 = \$175$$

$$\$175 + \$56 = \underline{\underline{\$231}}$$



7th October

$$76 \times 2.3$$

$$\begin{array}{r}
 2.3 \\
 \times 7.6 \\
 \hline
 161.0 \\
 174.8
 \end{array}$$

$$174.8$$

$$15\% \times 680$$

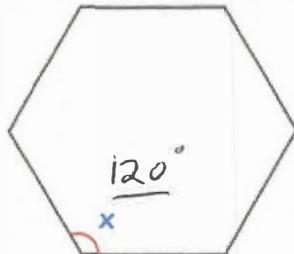
$$\begin{array}{r}
 10\% \text{ of } 680 = 68 \\
 5\% \text{ of } 680 = \underline{\underline{3.4}} \\
 \hline
 102
 \end{array}$$

$$102$$

Here is a regular hexagon

Find the size of each angle

$$720 \div 6 = 120^\circ$$



Chloe is building a fence for her garden.

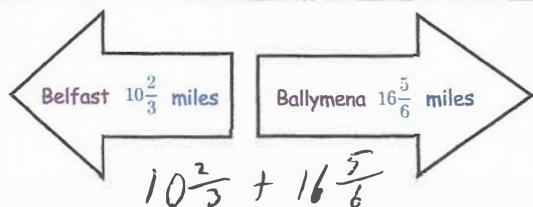
The fence costs £9.25 per metre to build.  
The fence is 16 metres long.

Work out the total cost of building the fence

$$\begin{array}{r}
 9.25 \\
 \times 16 \\
 \hline
 55.50 \\
 92.50 \\
 \hline
 148.00
 \end{array}$$



$$\text{£148}$$



Work out the distance from Belfast to Ballymena.

$$\begin{array}{r}
 \frac{32}{3} + \frac{101}{6} \\
 \frac{64}{6} + \frac{101}{6} = \frac{165}{6} \\
 27 \frac{3}{6} \\
 27 \frac{1}{2} \text{ miles}
 \end{array}$$



8th October

$$\frac{6}{11} \div 2$$

$$\frac{3}{11}$$

$$\begin{array}{r} 0037 \\ \hline 49 \end{array} \begin{array}{r} 181343 \\ \hline 18 \end{array}$$

$$\begin{array}{r} 49 \\ 98 \\ 147 \\ 196 \\ 245 \\ 294 \\ 343 \end{array}$$

$$37$$

$$w + 8 = 13$$

Work out the value of  $w$

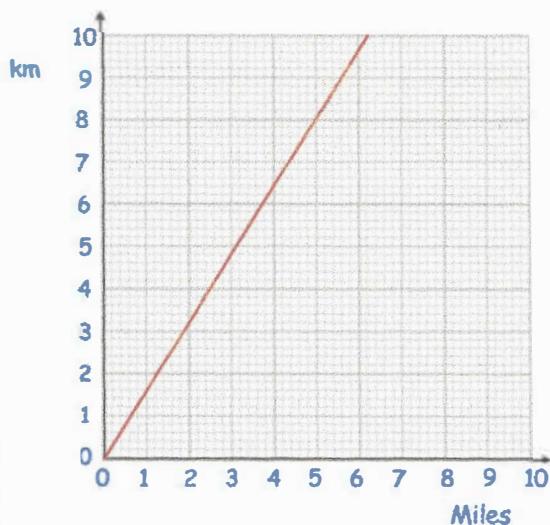
$$5$$

$$w + 8 = 13$$

$$-8 \quad -8$$

$$w = 5$$

This graph can be used to change between miles and kilometres.



Change 10 miles into kilometres

$$16 \text{ km}$$

Change 40 kilometres into miles

$$25 \text{ miles}$$



9th October

9<sup>3</sup>

$$9 \times 9 = 81$$

$$81 \times 9 = 729$$

729

$$\begin{array}{r}
 1654 \\
 \times 26 \\
 \hline
 \end{array}$$

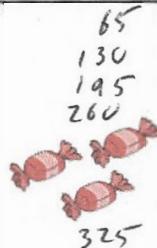
There are 1625 sweets in a tub.  
A group of friends share the sweets.

Each person gets 65 sweets.

How many friends are there?

25

$$\begin{array}{r}
 0.025 \\
 65 \sqrt{1625} \\
 \hline
 \end{array}$$



Write  $\frac{1}{8}$  as a decimal

0.125

For every three 50p coins, Cain has two 20p coins.  
Cain has £40 in 20p coins. 200 coins

How much money does Cain have altogether?

$$\begin{aligned}
 200 \div 2 &= 100 \\
 100 \times 3 &= 300 \text{ 50p coins}
 \end{aligned}$$

$$\text{£}150 + \text{£}40 = \text{£}190$$



10th October

$$6.2 \times 3,000$$

$$\begin{array}{r}
 6.2 \\
 \times 3000 \\
 \hline
 186000
 \end{array}$$

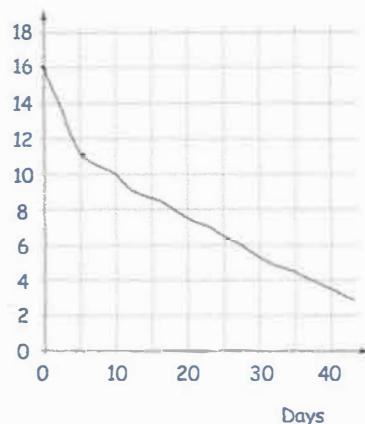
$$18,600$$

$$20\% \text{ of } 52$$

$$10\% \text{ of } 52 = 5.2$$

$$10.4$$

Depth of the river in cm



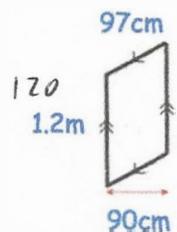
What was the depth of the river after 10 days?

$$10 \text{ cm}$$

How long did it take the river to go from a depth of 16cm to 11cm?

$$5 \text{ days}$$

Work out the area of this parallelogram



$$\begin{array}{r}
 120 \\
 \times 90 \\
 \hline
 10800
 \end{array}$$

$$10800 \text{ cm}^2$$



11th October

$$627 \times 48$$

$$\begin{array}{r}
 627 \\
 \times 48 \\
 \hline
 5016 \\
 2508 \\
 \hline
 30096
 \end{array}$$

$$30,096$$

$$-15 - 16$$

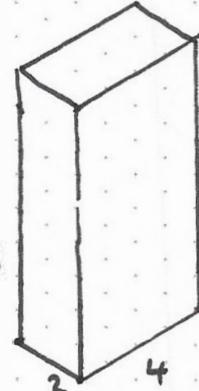
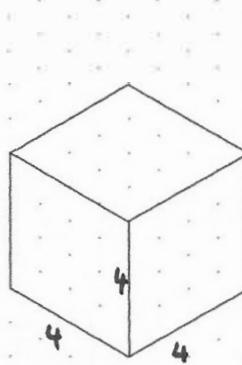
$$-31$$

Here is a drawing of a cube on an isometric grid.

Draw a cuboid that has the **same** volume of the cube.

$$4 \times 4 \times 4 = 64$$

$$4 \times 2 \times 8 = 64$$



Here are five number cards.

The mean of the numbers on the five cards is 12.

13	5	18	2	22
----	---	----	---	----

Work out the missing number

$$\text{total} = 12 \times 5 = 60$$



12th October

$$1,072 \times 24$$

$$\begin{array}{r}
 1072 \\
 \times 24 \\
 \hline
 4288 \\
 21440 \\
 \hline
 25728
 \end{array}$$

$$25728$$

$$4,741 \div 11$$

$$\begin{array}{r}
 0431 \\
 11 \overline{)47341}
 \end{array}$$

$$431$$

Write 15% as a fraction

$$\frac{15}{100} = \frac{3}{20}$$

Katie has a pet dog, Maxi.

Maxi eats **two-thirds** of a can of dog food each day.

How many cans of dog food should Katie buy to last two weeks?

$$\frac{2}{3} \times \frac{14}{1} = \frac{28}{3} \\
 9\frac{1}{3}$$



$$\underline{10 \text{ cans}}$$

Solve this equation

$$9x + 10 = 7x + 32$$

$$-7x \quad -7x$$

$$2x + 10 = 32$$

$$-10 \quad -10$$

$$2x = 22$$

$$\div 2 \quad \div 2$$

$$x = 11$$



13th October

$$\frac{1}{3} = 0.\dot{3}$$

$$12 + \underbrace{8 \times 13}_{104} + 7$$

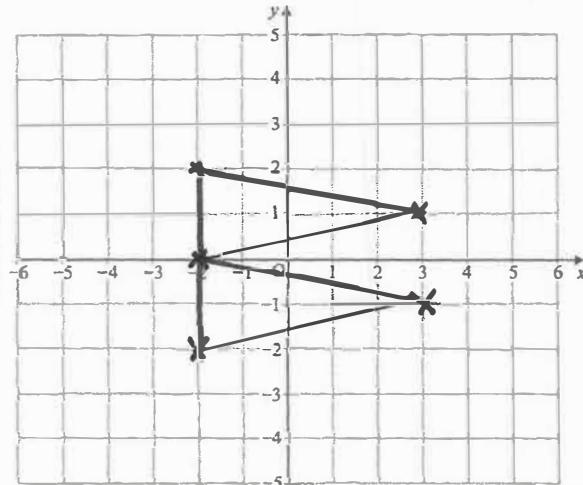
Raheem draws an isosceles triangle on the grid.

Two of the points are

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

Draw the triangle on the grid

Reflect your triangle in the x-axis.



The cost of making a book can be found using this rule

**Cost = number of pages × 5p + 45p for the cover**

A book costs £6.05

How many pages does that book have?

$$605 - 45 = 560$$

$$560 \div 5 = \underline{\underline{112}}$$



14th October

$$15\% \times 5,000$$

$$2\frac{1}{2} \times 47$$

$$\begin{array}{r} 100 - 500 \\ 500 - 250 + \\ \hline 750 \end{array}$$

$$750$$

$$\begin{array}{r} 2 \times 47 = 94 \\ 2 \times 47 = \underline{23.5} \\ \hline 117.5 \end{array}$$

$$117.5$$

A cake has a mass of 600g.  
36% of the cake is sugar.

How many grams of sugar are in the cake?

$$\underline{216g}$$

$$1\% \text{ of } 600 = 6$$

$$36\% \text{ of } 600$$

$$= 6 \times 36 = 216$$



The letters **a**, **b**, **c** and **d** stand for numbers.

The sum of each row is given

a	a	a	a	24
a	a	b	b	28
b	c	c	c	29
a	b	c	d	31

Find the values of **a**, **b**, **c** and **d**

$$24 \div 4 = 6 \quad (\text{a})$$

$$b = \frac{28 - 12}{2} = 8$$

$$3c = 29 - 8$$

$$\begin{aligned} d = 31 - 7 - 8 - 6 \\ = 10 \end{aligned}$$

$$a = 6$$

$$b = 8$$

$$c = 7$$

$$d = 10$$



15th October

$$0.08 \times 500$$

$$\boxed{40}$$

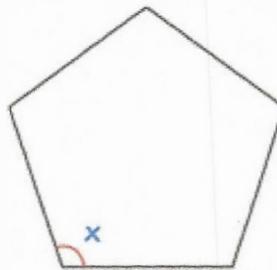
$$\begin{array}{r}
 & 1 & 8 & 5 \\
 \times & 1 & 3 & 4 \\
 \hline
 & 7 & 4 & 0 \\
 & 5 & 5 & 5 & 0 \\
 & 1 & 8 & 5 & 0 \\
 \hline
 & 2 & 4 & 7 & 9 & 0
 \end{array}$$

$$\boxed{24,790}$$

Here is a regular pentagon.

Find the size of each angle

$$540 \div 5 = \underline{108^\circ}$$



$$n = 18$$

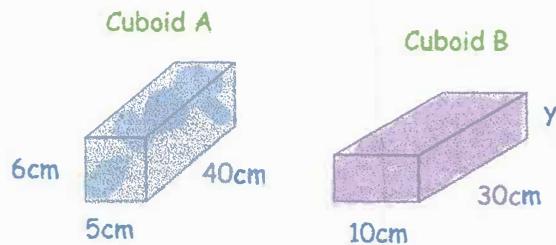
What is  $20n + 70$ ?

$$20 \times 18 + 70 = \underline{430}$$

Cuboid A and Cuboid B have the same volume.

Find the height of cuboid B.

$$\begin{aligned}
 \text{Vol} &= 6 \times 5 \times 40 = 1200 \\
 1200 &\div (10 \times 30) = \underline{4 \text{ cm}}
 \end{aligned}$$





16th October

9% of 7,000

$$\begin{array}{r} 10\% - 700 \\ 1\% - 70 \\ \hline 9\% \quad 630 \end{array}$$

630

$$\frac{17}{8} - \frac{2}{8} = \frac{15}{8}$$

$$\frac{15}{8} = 1\frac{7}{8}$$

$$19 \times 345 = 6,555$$

Use this multiplication to complete these calculations

$$190 \times 345$$

$$6555 \times 10 = \underline{\underline{65550}}$$

$$19 \times 34.5$$

$$655.5$$

$$20 \times 345$$

$$6555 + 345 = \underline{\underline{6900}}$$

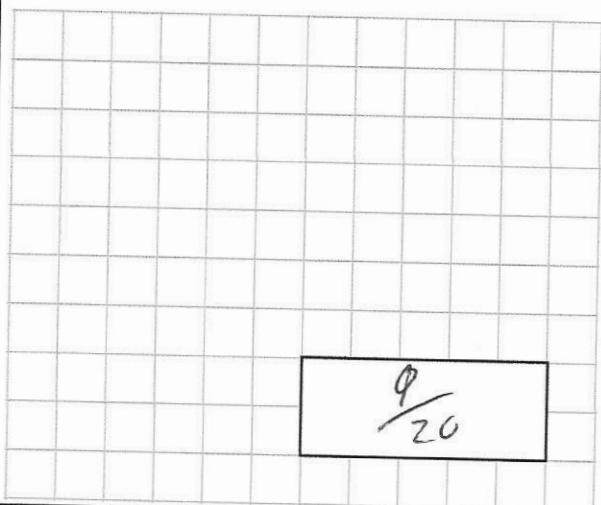
Put brackets into the calculation to make it true

$$6 \times (7 + 3) - 8 = 52$$



17th October

$$\frac{9}{10} \div 2$$



45% of 260

$$\begin{aligned}10\% &= 26 \\20\% &= 52 \\40\% &= 104 \\5\% &= 13 \\45\% &= 117\end{aligned}$$

117

Work out the value of y

$$3y = 24$$

$$\div 3 \quad \div 3$$

$$y = 8$$

The time taken for 4 friends to complete a crossword are

14 minutes

1,200 seconds

20 mins

three quarters of an hour

45 mins

25 minutes

Arrange the times in order, starting with the quickest.

14 mins, 1200 seconds, 25 mins,  $\frac{3}{4}$  hour

Adam organised a charity concert at a theatre.

The hall holds 35 rows of 42 seats. There were 50 empty seats.

Each person paid £18.

How much money did Adam raise?

$$35 \times 42 = 1470$$

$$1470 - 50 = 1420$$

$$1420 \times 18 = £25560$$



18th October

$$120 - \underline{\underline{30 \div 6}}$$

115

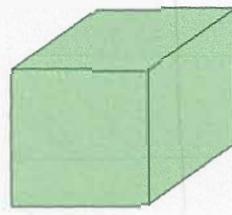
$$3,914 \times 27$$

$$\begin{array}{r}
 3914 \\
 \times 27 \\
 \hline
 27398 \\
 78280 \\
 \hline
 105678
 \end{array}$$

105,678

Work out the volume of this cube.

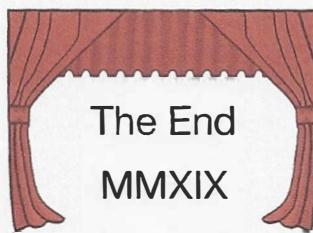
$$5 \times 5 \times 5 = \underline{\underline{125 \text{cm}^3}}$$



5m

Find three different prime numbers with a sum of 43

$$\begin{array}{r}
 3 + 17 + 23 : \\
 \text{prime number} \quad \text{prime number} \quad \text{prime number}
 \end{array}$$



Write the year MMXVI in figures

2016



19th October

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

$$\frac{4}{3} + \frac{37}{10}$$

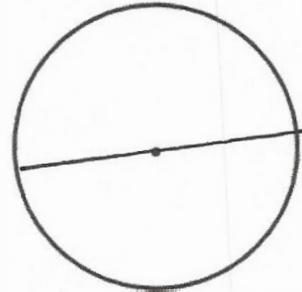
$$= \frac{40 + 111}{30} = \frac{151}{30}$$

$$\frac{151}{30} = 5\frac{1}{30}$$

$$\begin{array}{r} 27 \\ 42 \sqrt{113} \\ \hline 11 \\ 10 \\ \hline 1 \end{array}$$

$$27$$

Draw the diameter on this circle



Lindsey is planting daffodil bulbs

For every 7 bulbs Lindsey planted, only 5 bulbs grew into daffodils

Altogether 70 daffodils grew

How many bulbs did Lindsey plant?

$$70 \div 5 = 14$$

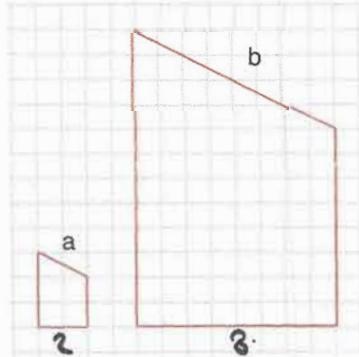
$$14 \times 7 = \underline{\underline{98}}$$

Here are two similar shapes.

Write down the ratio of side a to side b.

$$a : b =$$

$$1 : 4$$





20th October

$$180 \times \frac{4}{5}$$

$$\begin{array}{r} 180 \div 5 = 36 \\ \times 4 \\ = 144 \end{array}$$

144

$$\begin{array}{r} 91 \\ 18 \sqrt{1638} \\ \quad 16 \quad \boxed{9} \\ \quad 16 \\ \quad 18 \end{array}$$

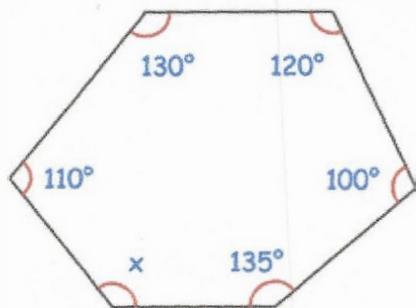
91

Find the size of angle x.

$$\text{total} = 720^\circ$$

$$5x = 720 - 595$$

$$x = \underline{\underline{125^\circ}}$$



Burt is making cupcakes.  
He has made 400 cupcakes.  
Burt places the cupcakes in boxes of 18.

How many boxes can he fill?

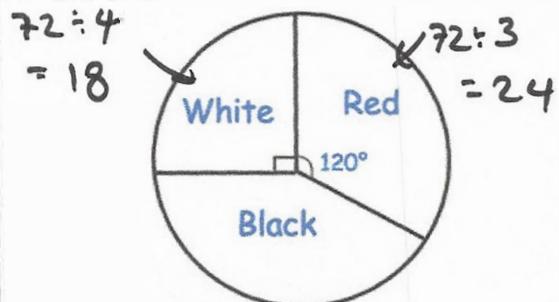
$$\underline{\underline{22}}$$


$$400 \div 18 = 22 \text{ r } 4$$

The pie chart shows information about the 72 counters in a bag.

How many counters are black?

$$72 - (18 + 24) : \underline{\underline{30}}$$





21st October

$$5,040,118 - 1,876,094$$

$$\begin{array}{r}
 459400118 \\
 - 1876094 \\
 \hline
 3164024
 \end{array}$$

$$3164024$$

$$\begin{array}{r}
 3791 \\
 \times 31 \\
 \hline
 3791 \\
 113730 \\
 \hline
 117521
 \end{array}$$

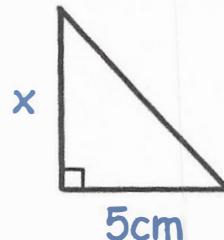
$$117,521$$

The area of the triangle is  $21\text{cm}^2$

Find the height of the triangle, x

$$21 \times 2 = 42$$

$$42 \div 5 = \underline{8.4\text{cm}}$$



A new snack bar contains 12g of sugar.

$\frac{3}{10}$  of the snack bar is sugar.

Work out the mass of the snack bar

$$\underline{40\text{g}}$$



$$12 \text{ is } \frac{3}{10}$$

$$4 \text{ is } \frac{1}{10}$$

Work out the value of u

$$2u - 9 = 6$$

$$\begin{array}{l}
 2u = 15 \\
 u = \underline{7.5}
 \end{array}$$



22nd October

$$31 \times 2.8$$

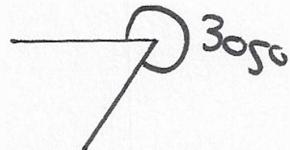
$$\begin{array}{r}
 31 \\
 \times 28 \\
 \hline
 248 \\
 620 \\
 \hline
 868
 \end{array}$$

$$86.8$$

$$5\% \text{ of } 630$$

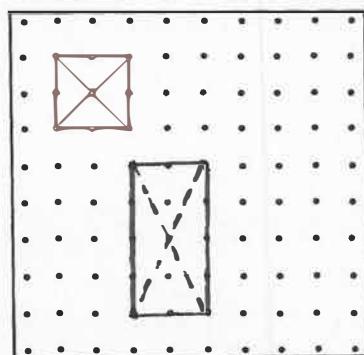
$$\begin{aligned}
 10\% \text{ is } 63 \\
 5\% \text{ is } 31.5
 \end{aligned}$$

$$31.5$$

Draw a  $305^\circ$  angleWrite  $\frac{14}{25}$  as a percentage

$$\begin{array}{r}
 \frac{14}{25} \xrightarrow{\times 4} \frac{56}{100} \\
 \xrightarrow{\div 4} 56\%
 \end{array}$$

The diagonals of a square cross at right angles.

On the grid, draw a different type of quadrilateral where the diagonals do not cross at right angles



23rd October

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

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

$$\frac{5}{18}$$

$$40 - (1 + 3)^2$$

$$40 - (4)^2$$

$$40 - 16$$

$$24$$

A bus travels 180 miles at a speed of 40 miles per hour.

How long does the journey take?

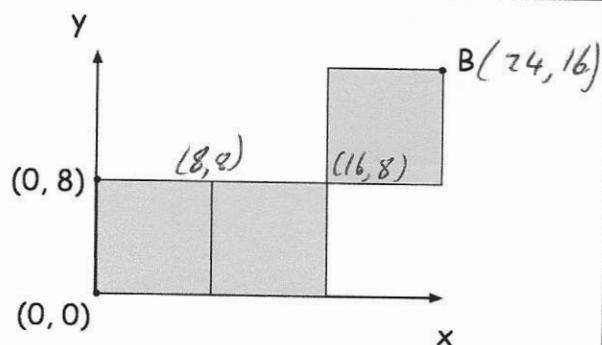
$$t = \frac{d}{s} \quad t = \frac{180}{40} = 4.5$$

$$4\frac{1}{2} \text{ hours}$$



Find the lowest common multiple (LCM) of 18 and 20

$$180$$



Three squares are placed on a grid.  
Find the coordinates of point B

$$(24, 16)$$



24th October

$$71 \div 4$$

$$4 \overline{)71.75}$$

$$\boxed{17.75}$$

$$12\% \text{ of } 3,000$$

$$\begin{aligned} 10\% &= 300 \\ 1\% &= 30 \\ 2\% &= 60 \end{aligned}$$

$$300 + 60 =$$

$$\boxed{360}$$

Two whole numbers multiply together to give an answer of 800.

Neither of the numbers contains the digit zero.

What are the two numbers?

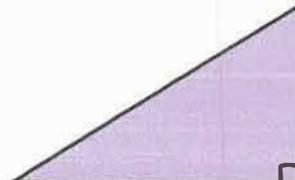
$$25 \times 32$$

The area of this triangle is  $54\text{cm}^2$

Find the height of the triangle.

$$54 \times 2 = 108$$

$$108 \div 12 = \underline{9\text{cm}}$$



12cm

Estimate the value of

$$9.03 + 19.87 \times 3.08 - 4.97$$

$$\approx 65$$

$$10 + 20 \times 3 - 5$$

$$= 10 + 60 - 5$$

**25th October**

$0.6 \times 2,000$

$$1,326 \div 17$$

$$6 \times 2000 =$$

$$17 \overline{)132^36}$$

1200

78

Matthew says that

$$9 + 4 \times 2 = 26$$

## Is Matthew correct?

No, using the correct order  $4 \times 2 = 8$ ,  $9 + 8 = \underline{17}$



The perimeter of this shape is 86cm

Find the missing length

19cm

A diagram showing a large rectangle with a smaller right-angled L-shaped cutout from its bottom-right corner. The rectangle's top edge is labeled "6cm". The left side of the rectangle is labeled "19 cm" and the bottom is labeled "24cm". The cutout's vertical leg is labeled "6cm" and its horizontal leg is labeled "18".

Work out the difference between the square root of 64 and the square root of 169.

$$\sqrt{64} = 8 \quad \sqrt{69} = 13$$

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



26th October

$$80\% \times 700$$

$$\begin{array}{r} 10\% - 70 \\ \times 8 \\ \hline 560 \end{array}$$

560

$$4\frac{1}{5} - \frac{1}{3}$$

$$\frac{21}{5} - \frac{1}{3}$$

$$\frac{63 - 5}{15} = \frac{58}{15}$$

$$\frac{58}{15} = 3\frac{13}{15}$$

Complete the table

Shape	Angles add up to
Triangle	$180^\circ$
Quadrilateral	$360^\circ$
Pentagon	$540^\circ$
Hexagon	$720^\circ$

Work out the value of  $k$ 

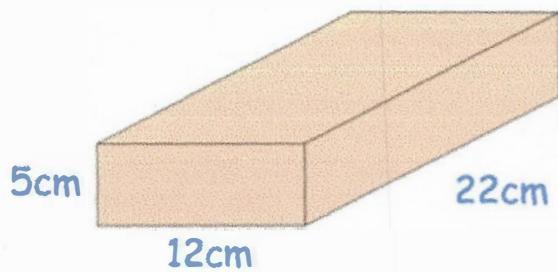
$$16 - k = 5$$

$$\underline{k = 11}$$

Work out the volume

$$5 \times 12 = 60$$

$$60 \times 22 = \underline{1320 \text{ cm}^3}$$





27th October

$$1.76 \times 8$$

$$\begin{array}{r}
 1.76 \\
 \times 8 \\
 \hline
 14.08
 \end{array}$$

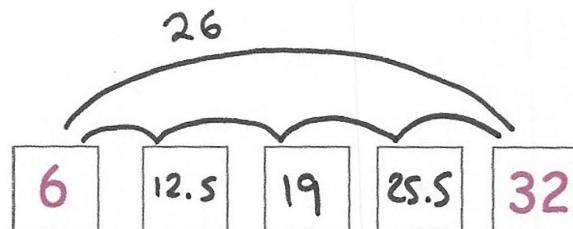
$$14.08$$

$$\begin{array}{r}
 124 \\
 35 \sqrt{4340} \\
 \end{array}$$

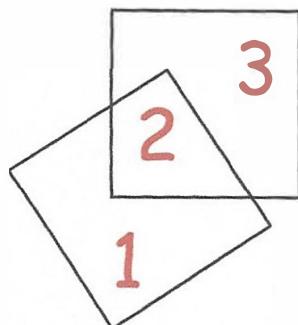
$$124$$

This sequence increases by an equal amount each time.

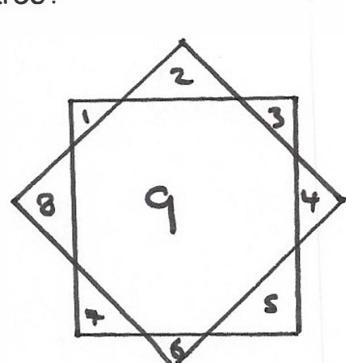
Find the three missing numbers



This diagram shows two squares that overlap to make 3 regions.



What is the greatest number of regions that can be made using two overlapping squares?





28th October

$$\frac{1}{8} \div 4$$

$$\frac{1}{8} \times \frac{1}{4} =$$

$$\frac{1}{32}$$

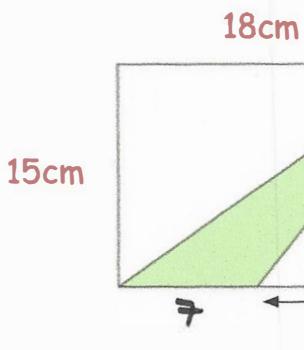
$$-60 + 125$$

$$65$$

Find the shaded area

$$\text{Rectangle } 18 \times 15 = 270$$

$$\text{Triangle } 7 \times 15 = \underline{105 \text{ cm}^2}$$



Work out the value of x

$$5x + 20 = 35$$

$$\underline{2x = 3}$$

$$35 - 20 = 15$$

$$15 \div 5 = 3$$

Convert 3.5 kilometres into millimetres

$$\underline{3,500,000 \text{ mm}}$$

$$\begin{aligned} 3.5 \text{ km} &= 3500 \text{ m} \\ &= 350,000 \text{ cm} \\ &= 3,500,000 \text{ mm} \end{aligned}$$



29th October

$$\frac{7}{20} = \boxed{35\%}$$

$$\begin{array}{r} 162 \\ 24 \sqrt{384} \\ \quad 48 \\ \quad 48 \end{array}$$

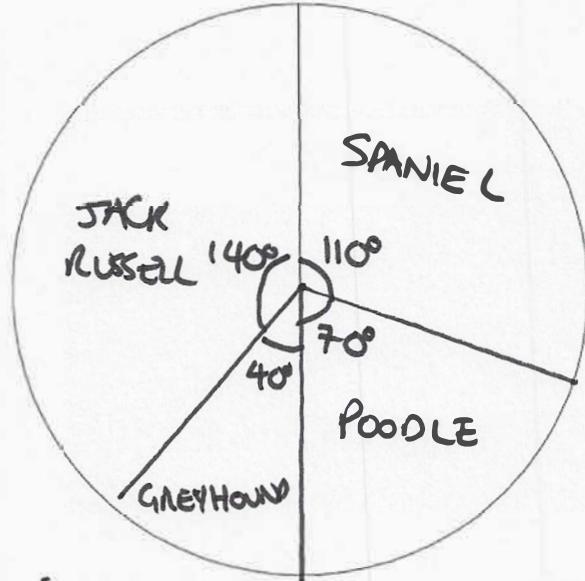
35%

162

Draw a pie chart to show this information

Breed	Frequency
Spaniel	11
Poodle	7
Greyhound	4
Jack Russell	14

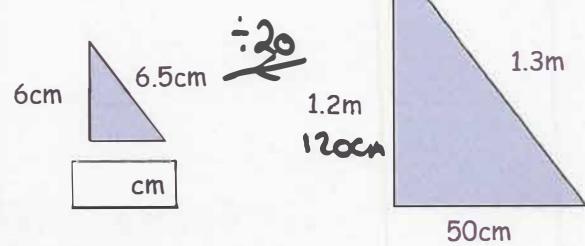
$$\frac{36}{360} \times 10$$



The two triangles are similar.

Work out the missing length

$$50 \div 20 = \underline{2.5\text{cm}}$$





30th October

$$0.065 = \boxed{6.5 \%}$$

$$\frac{\square}{40} = 0.3$$

6.5 %

12

$$42 \times 31 = 1,302$$

Use this multiplication to complete the calculations below

$$42 \times 62 \quad 1302 \times 2 =$$

2604

$$21 \times 31 \quad 1302 \div 2$$

$$= \underline{651}$$

$$42 \times 32$$

$$1302 + 42 = 1344$$

A sequence of numbers starts at 15 and follows the rule

**"treble the last number and add 4"**

15    49    151    457 ...

The number 4,129 is in the sequence.

Calculate the number which comes immediately before 4,129.

$$4129 - 4 = 4125$$

$$4125 \div 3 = \underline{1375}$$



31st October

$$961 \times 223$$

$$\begin{array}{r}
 961 \\
 \times 223 \\
 \hline
 2883 \\
 19220 \\
 \hline
 214303
 \end{array}$$

$$\boxed{214303}$$

$$\frac{\square}{\square} = 62.5\%$$

$$\boxed{\frac{5}{8}}$$

## Stuffed Turkey

Serves 4

Turkey	500g
Red Onion	1
Garlic Cloves	2
Chestnut Mushrooms	150g
Spinach	140g
Chicken Stock	300ml

Dylan wants to make Stuffed Turkey for 14 people.

How much of each ingredient is needed?

$$14 \div 4 = 3.5$$

$$\begin{aligned}
 3.5 &= 1750\text{g} \\
 &= 3\frac{1}{2} \\
 &= 7 \\
 &= 525 \\
 &= 490\text{g} \\
 &= 1050\text{ml}
 \end{aligned}$$

Kelly has 7 pence more than Andy.  
Georgia has 8 pence less than Andy.

They have £1.49 in total.

How much money does Andy have?

$$50\text{p}$$

$$K = a + 7$$

$$A = a$$

$$G = a - 8$$

$$3a - 1 = 149$$

$$3a = 150$$

$$a = 50$$