





2nd November

70% of 1,250

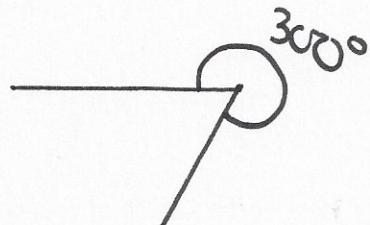
10% is 125

$$\begin{array}{r}
 125 \\
 \times 7 \\
 \hline
 875
 \end{array}$$

875

$$\frac{\square}{0.5} = 314$$

157

Draw a  $300^\circ$  angle

40% of the apples in a bag are red.  
The rest of the apples are green.

There are 24 red apples in the bag.

How many apples are in the bag?

60

40% - 24 apples

10% - 6 apples

60 apples

 $m$  is a whole number.

$7m$  is greater than 50  
 $10m$  is less than 130

Write all the numbers that  $m$  could be

8, 9, 10, 11, 12



3rd November

$$7 + 7 + 7 + 7 \times 7$$

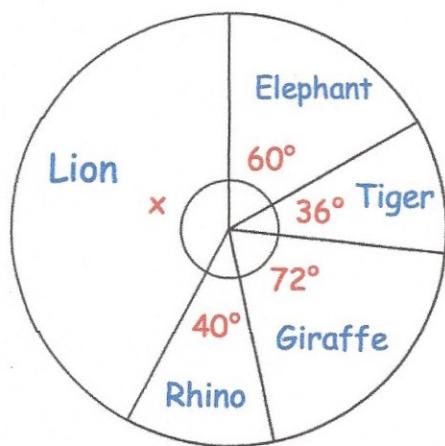
49

70

$$\begin{array}{r}
 1 & 9 & 5 \\
 \times & 1 & 6 & 3 \\
 \hline
 5 & 8 & 5 \\
 1 & 1 & 7 & 0 & 0 \\
 1 & 9 & 5 & 0 & 0 \\
 \hline
 3 & 1 & 7 & 8 & 5
 \end{array}$$

31,785

The pie chart shows information about the animals some children liked best.



Find the size of the angle x.

$$60 + 40 + 72 + 36 = 208$$

$$360 - 208 = \underline{\underline{152^\circ}}$$

What fraction of children liked Rhino best?

$$\frac{40}{360} = \frac{1}{9}$$

Alan has 5 more sweets than Bryan.  
Clara has 2 sweets less than Bryan.  
Altogether they have 30 sweets.

How many sweets does Alan have?

14

$$\begin{aligned}
 a &= b + 5 \\
 c &= b - 2
 \end{aligned}$$

$$\text{total } 3b + 3 = 30$$

$$b = 9$$

$$\text{Alan has } 9 + 5 = 14$$



4th November

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

$$\frac{3}{64}$$

$$40 - 3^3$$

$$27$$

$$13$$

Find the remainder when 1,520 is divided by 32.

$$\underline{\underline{16}}$$

$$32 \overline{)1520} \quad \begin{matrix} 47 \\ \text{r}16 \end{matrix}$$

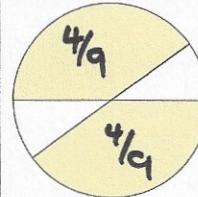
$$\begin{matrix} 32 \\ 64 \\ 96 \\ 128 \\ 160 \\ 192 \\ 224 \end{matrix}$$

In this circle, each shaded part is  $\frac{4}{9}$  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?

$$\underline{\underline{18}}$$



$$\begin{aligned} \frac{4}{9} + \frac{4}{9} &= \frac{8}{9} \\ \text{leaving } \frac{1}{9} \\ \text{half of } \frac{1}{9} &= \frac{1}{18} \end{aligned}$$

Anthony and Elise have the same number of football cards.

Anthony has sorted his cards into piles of 10.

Elise has sorted her cards into piles of 18.

How many cards do they each have?

$$\begin{matrix} 10, 20, 30, 40, 50, 60, 70, 80, 90 \\ 18, 36, 54, 72, 90 \end{matrix}$$

$$\underline{\underline{90}} \quad (\text{or a multiple of } 90)$$



**5th November**

$$1\frac{1}{5} \times 10$$

$$\frac{6}{5} \times 10 = \frac{60}{5} =$$

12

$$896 \div 28$$

$$\begin{array}{r} 32 \\ 28 \sqrt{3956} \end{array}$$

32

## Simplify

$$6a + 3b - 2a + b$$

$$= 4a + 4b$$

A shop sells drinks.

Harry buys 2 coffees and 1 tea for £8.70

Mia buys 2 coffees and 4 teas for £16.80

How much does one tea cost?

£2.70

$$\begin{array}{r} \text{3 teas cost } 16.80 - 8.70 \\ \hline = \$8.10 \end{array}$$

$$8.10 \div 3 = \underline{\hspace{2cm}}$$

Work out the value of  $m$

$$9m + 12 = 66$$

$$q_M = 54$$

$$M = \underline{\underline{6}}$$



6th November

$$65\% = \frac{\square}{\square}$$

$$\frac{65}{100} = \frac{13}{20}$$

$$\frac{13}{20}$$

$$635 \times 273$$

$$\begin{array}{r}
 635 \\
 \times 273 \\
 \hline
 1905 \\
 44450 \\
 \hline
 127000 \\
 \hline
 173355
 \end{array}$$

$$173,355$$

Circle two numbers that multiply together to equal **10 million**

200 **500** 1,000 2,000

**20,000** 100,000 200,000

Katie thinks of a number.

She **multiplies the number by 4** and then **subtracts 25** from the result.

Her answer equals the number she started with.

What was the number Katie started with?

$$4x - 25 = x$$

$$3x = 25$$

$$x = \frac{25}{3} = \underline{\underline{8\frac{1}{3}}}$$

Write the number 1966 in Roman numerals.

**MCM LXVI**



7th November

$$5\% \times 1,600$$

10% is 160

80

$$0.6 \times 210$$

$$\begin{array}{r}
 210 \\
 \times 6 \\
 \hline
 1260
 \end{array}$$

126

Here is an equation

$$m = 120 - 3c$$

Find the value of  $c$  when  $m = 90$

$$90 = 120 - 3c$$

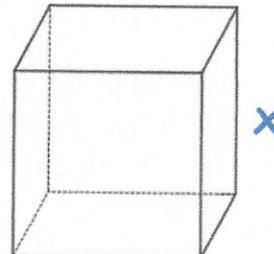
$$3c = 30$$

$$\underline{c = 10}$$

A cube has a volume of  $125\text{cm}^3$

Find  $x$

$$\sqrt[3]{125} = \underline{5\text{cm}}$$



Farmer Smith has 50 more sheep than Farmer Jones.

Farmer White has three times as many sheep as Farmer Jones.

In total there are 1,050 sheep.

How many sheep does Farmer Jones have?

200

Jones:  $x$   
 Smith:  $x + 50$   
 white:  $3x$

$$\text{Total } 5x + 50 = 1050$$

$$\Rightarrow 5x = 1000 \quad x = 200$$



8th November

$$\frac{7}{9} - \frac{1}{6}$$

$$\frac{14}{18} - \frac{3}{18} =$$

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

$$0.06 \times 23$$

$$\begin{array}{r} 23 \\ \times 6 \\ \hline 138 \end{array}$$

$$1.38$$

Write  $\frac{9}{20}$  as a percentage

$$45\%$$

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

A gardener plants daffodil bulbs in her garden.

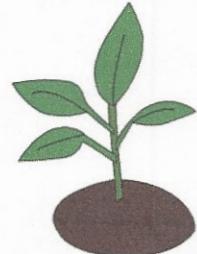
For every 2 yellow bulbs, she plants 5 white bulbs.

She plants 40 white bulbs.

How many bulbs does she plant in total?

yellow : white

$$\begin{array}{r} 2 : 5 \\ \times 8 \quad \times 8 \\ 16 : 40 \end{array}$$



$$16 + 40 = \underline{56}$$

In a triangle the largest angle is four times the size of the smallest angle.

The other angle is 30 degrees larger than the smallest angle.

Write down the sizes of the three angles.

$$25^\circ, 55^\circ, 100^\circ$$

smallest:  $x$

largest:  $4x$

other:  $x + 30$

$$\text{total } 6x + 30 = 180$$

$$6x = 150$$

$$x = 25$$



9th November

$$\frac{2}{3} = 66.666..$$

$$7 \times 7 \times 8 \times 8$$

$$\begin{array}{r} 7 \times 7 = 49 \\ 8 \times 8 = 64 \end{array}$$

$$\begin{array}{r} 64 \\ \times 49 \\ \hline 576 \\ 2560 \\ \hline 3136 \end{array}$$

3136

Chair World  
2 chairs for £30  
or £15 each



Chair'R'us  
4 chairs for £58  
or £14.50 each

Land of Chairs  
3 chairs for £46  
or £15.33 each

Henry wants to buy 9 chairs.

Which shop is the best value for money?

## Chair'R'us

A factory makes 8,000 bottles of lemonade.  
Each bottle contains 250 millilitres.  
How many litres of lemonade does the factory make?

Chair world  
 $4 \times 30 + 18 = £138$

Chair'R'us  
 $58 \times 2 + 19 = £135$

Land of Chairs  
 $46 \times 3 = £138$

$250 \text{ ml} = \frac{1}{4} \text{ litre}$   
 $\frac{1}{4} \times 8000 = \underline{\underline{2000 \text{ litres}}}$



10th November

$$80 + \underbrace{40 \times 3}_{120}$$

200

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

185,628

Add these signs to make the calculation correct.

+ - × ÷

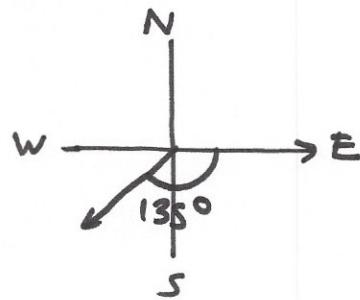
$$5 \boxed{+} 8 \boxed{-} 4 \boxed{+} 2 = 11$$

Tomas is facing East.

He turns  $135^\circ$  clockwise.

What direction is he now facing?

South west



Eddy had some money.

He spent £1.05 on a drink.

He spent 99p on a packet of popcorn.

Eddy has **three-fifths** of his money left.

How much money did Eddy start with?

$$1.05 + 99 = \text{£}2.04 \text{ is } \frac{3}{5}$$

$$\therefore \text{£}1.02 \text{ is } \frac{1}{5}$$

$$1.02 \times 5 = \underline{\text{£}5.10}$$



11th November

$$2360 \div 59$$

$$59 \overline{)2360} \quad \begin{array}{c} 40 \\ \hline \end{array}$$

$$40$$

$$1\frac{1}{4} \times 38$$

$$\frac{5}{4} \times 38 = \frac{190}{4}$$

$$47.5$$

Emma scored 13 out of 25 in a quiz.

What percentage of the questions did Emma answer correctly?

$$52\%$$

$$\frac{13}{25} \times 4 = \frac{52}{100}$$



Patrick had some money

He spent £2.72 on a coffee.

He spent £1.74 on a muffin.

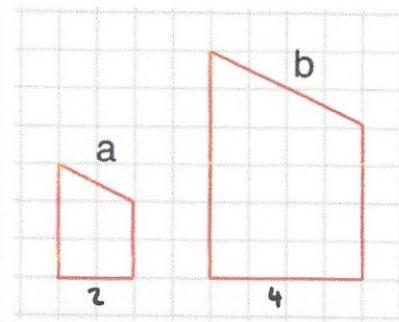
He has **four-fifths** of his money left.

How much money did Patrick have to **start with**?

$$2.72 + 1.74 = 4.46$$

is  $\frac{1}{5}$  of his money

$$4.46 \times 5 = \underline{\underline{22.30}}$$



The two shapes are similar.

Write the ratio of side a to side b.

$$a : b = 1 : 2$$



12th November

$$2\frac{1}{3} - \frac{5}{9}$$

$$\frac{7}{3} - \frac{5}{9}$$

$$= \frac{21}{9} - \frac{5}{9} = \frac{16}{9}$$

$$\frac{16}{9} = 1\frac{7}{9}$$

55% of 750

$$\begin{aligned} 50\% &= 375 \\ 5\% &= \underline{37.5} \end{aligned}$$

$$412.5$$

$$22,176 = 84 \times 264$$

Use this multiplication to complete these calculations

$$8.4 \times 264$$

$$\underline{2217.6}$$

$$83 \times 264$$

$$\begin{array}{r} 28176 \\ - 264 \\ \hline 21912 \end{array}$$

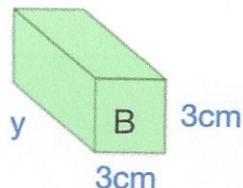
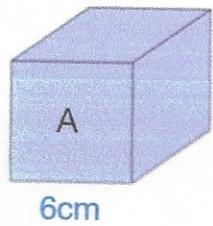
$$\underline{21912}$$

$$84 \times 263$$

$$\begin{array}{r} 22176 \\ - 84 \\ \hline 22092 \end{array}$$

$$\underline{22092}$$

Cube A and Cuboid B have the same volume.



Calculate the missing length on the cuboid, y.

$$6 \times 6 \times 6 = 216$$

$$216 \div 3 \div 3 = \underline{24 \text{ cm}}$$



13th November

$$2,716 \times 27$$

$$\begin{array}{r}
 2716 \\
 \times 27 \\
 \hline
 19012 \\
 54320 \\
 \hline
 73332
 \end{array}$$

$$73,332$$

$$\begin{array}{r}
 62 \\
 90 \boxed{55} 8180
 \end{array}$$

$$62$$

Gregory and his family go for a meal while on holiday in Florida.

They are told it is normal to tip 15%.

The meal costs \$90.  
Gregory tips \$12, is this enough?

No



$$\begin{array}{r}
 15\% \text{ of } \$90 \\
 = \$13.50
 \end{array}$$

Josie and Kirsty each get the same pocket money.

Josie spends 90% of her pocket money.  
She has £0.50 left.

Kirsty spends 40% of her pocket money.

How much does Kirsty have left?

Josie: 50p is 10p  
so 10p is £5

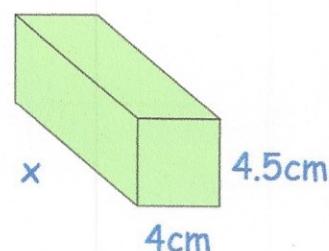
Kirsty has 60% of £5  
= £3

Find the length of this cuboid

$$432 \div (4 \times 4.5)$$

$$= 24 \text{ cm}$$

Volume:  $432 \text{ cm}^3$





14th November

$$15.74 \times 6$$

$$\begin{array}{r}
 15.74 \\
 \times 6 \\
 \hline
 94.44
 \end{array}$$

$$94.44$$

$$1\frac{1}{2} \times 15$$

$$\frac{3}{2} \times 15 = \frac{45}{2}$$

$$22\frac{1}{2}$$

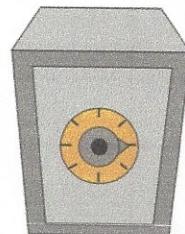
Charlie's password is made up of six **different** digits.

He remembers it as two 3-digit numbers.

The first 3-digits is a square number between 100 and 200.

The second 3-digits is a cube number between 100 and 200.

List all his possible passwords



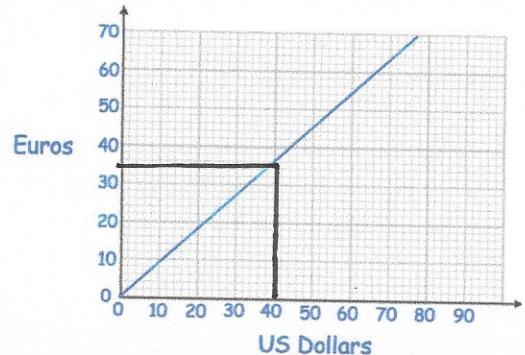
$$100 \ 125$$

$$121 \ 125$$

$$144 \ 125$$

$$169 \ 125$$

$$196 \ 125$$



Change \$40 into Euros (€)

$$€35$$



15th November

$$396 \div 22$$

$$22 \overline{)3976} \quad \begin{array}{c} 18 \\ \hline 39 \\ 22 \\ \hline 17 \\ 17 \\ \hline 0 \end{array}$$

$$\boxed{18}$$

$$0.7 \times 400$$

$$\boxed{280}$$

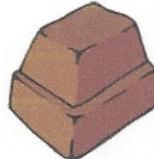
A chocolate bar weighs 70g.

A special edition bar weighs an extra 35%.

Work out how much the special edition bar weighs.

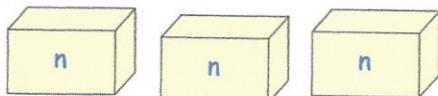
$$\underline{94.5g}$$

$$\begin{aligned} 35\% \text{ of } 70g \\ = 24.5g \end{aligned}$$



$$70 + 24.5 = 94.5$$

Megan has three boxes. Each box contains  $n$  beads.



Write down how many beads Megan has?

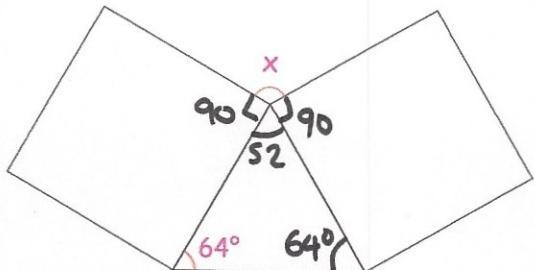
$$3n + 2$$

She puts all her beads together and then adds 2 more beads.

Here is an isosceles triangle and two squares.

Find  $x$

$$\underline{x = 128^\circ}$$





16th November

$$\frac{7}{8} - \frac{2}{5}$$

$$\frac{35 - 16}{40} = \frac{19}{40}$$

$$\frac{19}{40}$$

14% of 700

$$98$$

Ava has 24 crates of oranges.

Each crate weighs 43.1 kilograms.

Ava's van can hold up to **one tonne**.

Will the van be able to carry all 24 crates?

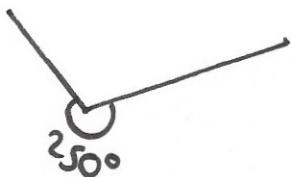
No



$$24 \times 43.1$$

$$= 1034.4$$

which is more than 1000kg

Draw a  $250^\circ$  angle

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

Write the year MMXV in figures.

2015



17th November

$$1\frac{3}{10} - \frac{5}{6}$$

$$\frac{13}{10} - \frac{5}{6}$$

$$= \frac{39}{30} - \frac{25}{30} = \frac{14}{30}$$

$$\frac{7}{15}$$

$$\frac{4}{9} \div 3$$

$$\frac{4}{9} \times \frac{1}{3} = \frac{4}{27}$$

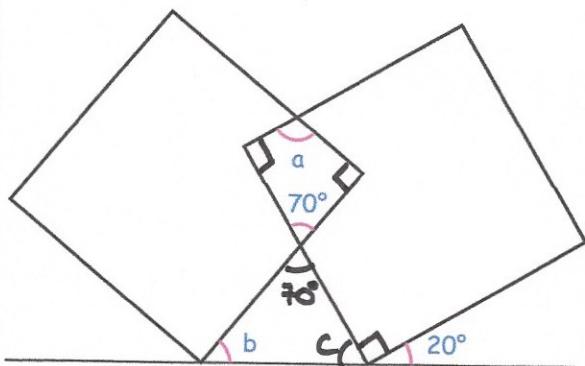
$$\frac{4}{27}$$

$$w = 3 \text{ and } y = 19$$

$$\text{Work out } 9w - 2y$$

$$9 \times 3 - 2 \times 19 = \underline{\underline{-11}}$$

This diagram shows a straight line and two overlapping squares.



Find the size of angle a

$$70 + 90 + 90 = 250$$

$$360 - 250 = \underline{\underline{110^\circ}}$$

Find the size of angle b

$$c = 70^\circ$$

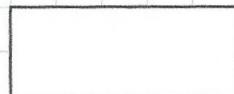
$$b = \underline{\underline{40^\circ}}$$



18th November

$$0.34 \times 62$$

$$\begin{array}{r}
 0.34 \\
 \times 62 \\
 \hline
 0.68 \\
 + 20.40 \\
 \hline
 21.08
 \end{array}$$



$$85\% \text{ of } 240$$

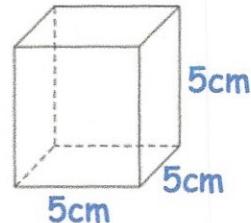
$$\begin{array}{r}
 10\% \text{ of } 240 = 24 \\
 5\% \text{ of } 240 = \underline{+ 1.2} \\
 \hline
 36
 \end{array}$$

$$204$$

Work out the volume of the cube.

$$5 \times 5 \times 5$$

$$125 \text{ cm}^3$$

Work out the value of  $u$ 

$$4u - 5 = 27$$

$$+5 \quad +5$$

$$4u = 32$$

$$\div 4 \quad \div 4$$

$$u = 8$$

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 three weeks?

$$21$$



$$\frac{21}{1} \times \frac{2}{3} = \frac{42}{3}$$

$$42 \div 3 = 14 \text{ cans}$$



19th November

$$\frac{9}{20} \div 3$$

$$\frac{3}{20}$$

$$0.062 \times 1,000,000$$

$$62,000$$



The pie chart shows the flavours of 270 ice creams sold.

How many chocolate flavoured ice creams were sold?

$$120^\circ = \frac{1}{3} \text{ of a circle}$$

$$270 \div 3 = \underline{90}$$

Last week Dara read  $\frac{3}{5}$  of his book.

This week he read the **other** 120 pages to finish his book.

How many pages are there in Dara's book?

$$\underline{300}$$

120 is  $\frac{3}{5}$  of the book

so 60 is  $\frac{1}{5}$

$$5 \times 60 = 300$$

Find the value of  $y$  in this equation

$$\begin{aligned}
 8 + 2y &= 80 - 6y \\
 \cancel{8} \quad + 6y &= \cancel{80} - 6y \\
 8y &= 72 \\
 \underline{y} &= 9
 \end{aligned}$$



20th November

$$3^4$$

$$3 \times 3 \times 3 \times 3 =$$

$$81$$

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

$$76,536$$

In 2018, a Zoo had 600,000 visitors.

40% of the people visited in July.  
25% of the people visited in June.

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

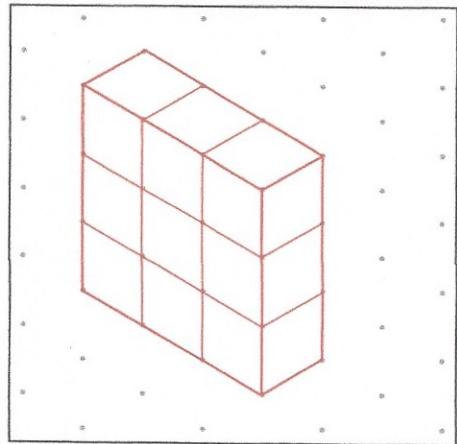
$$210,000$$

$$40 + 25 = 65\%$$

$$100 - 65 = 35\%$$

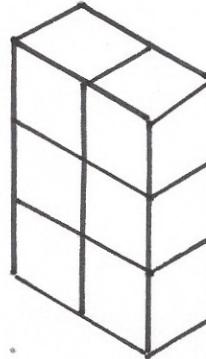
$$\begin{aligned}
 35\% \text{ of } 600,000 \\
 = 210,000
 \end{aligned}$$

Ethan uses nine cubes to make a cuboid.



He then removes three cubes, leaving the other cubes where they are.

Draw what the new shape could be



for example



21st November

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

$$\frac{1}{3} = 33.33.. \%$$

$$\frac{3}{8}$$

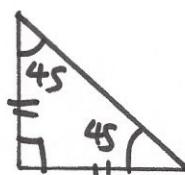
$$33.\dot{3} \%$$

James says that a triangle is right angled.

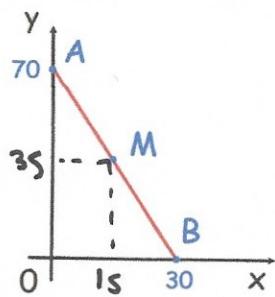
Olivia says that the same triangle is isosceles.

They are both correct.

Explain how.



With one right angle, the other 2 angles could both be  $45^\circ$



In this diagram M is an equal distance from A and B.

What are the coordinates of M?

$$(15, 35)$$

Work out the perimeter of this rectangle

$$\frac{9}{10} \text{ cm}$$



$$\begin{aligned} & \frac{9}{10} + \frac{1}{4} + \frac{9}{10} + \frac{1}{4} \\ &= \underline{\underline{2\frac{3}{10} \text{ cm}}} \end{aligned}$$



22nd November

$$2,446 \times 31$$

$$\begin{array}{r}
 2446 \\
 \times 31 \\
 \hline
 2446 \\
 73380 \\
 \hline
 75826
 \end{array}$$

75,826

$$40 \times 5^2$$

$$= 40 \times 25$$

1000

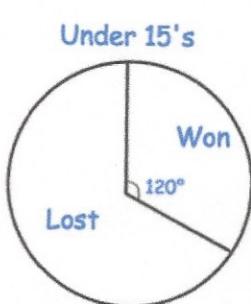
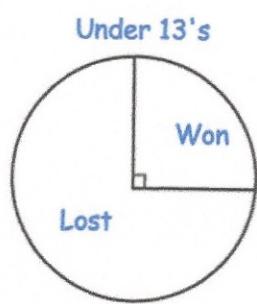
Work out the value of  $n$

$$n - 4 = 6$$

$$\underline{\underline{n = 10}}$$

A school has two rugby teams, Under 13's and Under 15's.

The pie charts show information about the number of matches each team won and lost, last season.



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

Tick the statements that are true

The Under 15's won a third of their matches

The Under 13's lost a quarter of their matches

The Under 13's won 7 matches

The Under 15's won more matches than the Under 13's



23rd November

$$0.85 \times 20$$

$$85 \times 2 = 170$$

$$85 \times 20 \approx 1700$$

17

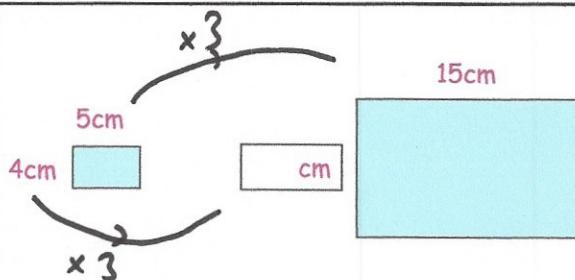
$$\frac{23}{30} - \frac{1}{4}$$

$$\frac{46}{60} - \frac{15}{60} =$$

$$\frac{31}{60}$$

Here are two similar rectangles.

Work out the missing length.

$$\underline{12\text{cm}}$$


In a season, Torquay United

Win 55% of their matches

Draw  $\frac{1}{3}$  of their matches

What fraction of their matches did Torquay United lose?

$$\frac{7}{60}$$

$$55\% = \frac{55}{100} = \frac{11}{20}$$

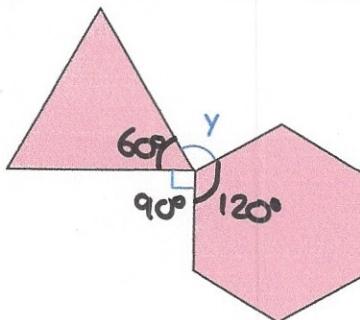
$$\frac{11}{20} + \frac{1}{3} = \frac{33+20}{60} = \frac{53}{60}$$

Shown is an equilateral triangle and a regular hexagon.

Find y.

$$360 - (60 + 90 + 120)$$

$$= 360 - 270 = \underline{90^\circ}$$





24th November

$$2,625 \div 105$$

$$105 \overline{)2625} \quad \begin{array}{c} 25 \\ \hline \end{array}$$

$$\boxed{25}$$

$$1.04 \times 72$$

$$\begin{array}{r} 104 \\ \times 72 \\ \hline 208 \\ 7280 \\ \hline 7488 \end{array}$$

$$\boxed{7488}$$

Esme says that

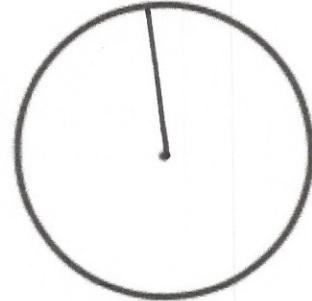
$$36 + \underbrace{8 \div 4}_2 = 11$$

Is Esme correct? No

$$36 + 8 \div 4 = 36 + 2 = \underline{38}$$

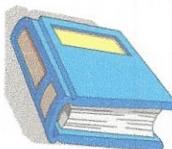


Draw the radius



Seamus Heaney was born in the year 1939.

Write 1939 in Roman numerals

$$\text{MCM XXXIX}$$




25th November

$$4 \div 5$$

$$80 - \frac{16 \div 8}{2}$$

0.8

78

For every 5 50p coins, Laura has 3 £2 coins.

Laura has £10 in 50p coins.

How much money does Laura have altogether?

£34

£10 is 20 50p coins

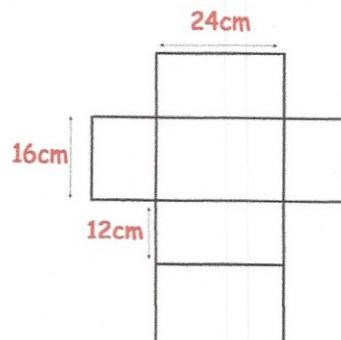
$$5:3 = 20:12$$

$$12 \times £2 = £24$$

Shown is the net of a cuboid.

Work out the volume of the cuboid.

$$24 \times 12 \times 16 = \underline{4608 \text{ cm}^3}$$



Flower pots normally cost £4 each.

Laura wants to buy 30 flower pots.

Gardenbase  
20% off

Lawn Factory  
Buy 5 get 2 free  
is cheaper

Which shop should Laura buy them from?

$$G: 4 \times 30 = £120 - 24 = \underline{£96}$$

$$L: \text{need 4 lots of "5+2"} = 20 \times 4 = £80$$

$$+ 2 \text{ more} = \underline{£88}$$



26th November

$$\frac{13}{20} = \boxed{65\%}$$

$$\frac{7}{20} \times 6,880$$

$$6880 \div 20 = 344$$

$$\begin{array}{r}
 344 \\
 \times 7 \\
 \hline
 2408
 \end{array}$$

**65%**

**2408**

Barry and Harry go for a meal.

Barry's meal costs £9.80 and his drink costs £3.80.

Harry's meal costs £9.20 and his drink cost £3.55.

They have a voucher that gives 20% off their meals, but **not** the drinks.

They also pay a £5 tip.

Barry and Harry share the cost equally. How much does each person pay?

**£10.83 (or £10.84)**



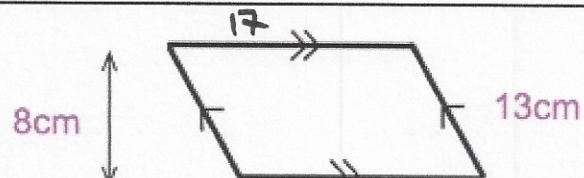
$$\begin{aligned}
 9.80 - 3.80 &= £6 \\
 9.20 - 3.55 &= £5.65 \\
 \hline
 \text{total meals} &= £11.65 \\
 20\% &\quad - 2.33 \\
 \hline
 &£9.32
 \end{aligned}$$

$$\begin{aligned}
 \text{total paid} & 9.32 + 3.80 + 3.55 \\
 &+ 5 \\
 &= 21.67
 \end{aligned}$$

The perimeter of this parallelogram is 60cm

Find the area.

$$8 \times 17 = \underline{136 \text{ cm}^2}$$



$$60 - 13 - 13 = 34$$

$$34 \div 17$$



27th November

$$1\frac{1}{10} - \frac{5}{6}$$

$$\frac{11}{10} - \frac{5}{6} = \frac{66 - 50}{60}$$

$$= \frac{16}{60} = \frac{4}{15}$$

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

$$1,161 \div 43$$

$$43 \overline{)1169} \overline{)27}$$

$$\begin{array}{r}
 43 \\
 36 \\
 129 \\
 172 \\
 215 \\
 258 \\
 301
 \end{array}$$

$$27$$

Round 3.92314 to 2 decimal places

$$3.92$$

Round 3.92314 to 3 decimal places

$$3.923$$

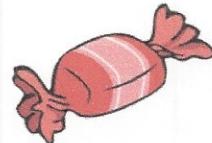
Georgia and Emma share 40 sweets in the ratio 2:3.

How many sweets does Emma get?

$$\underline{24}$$

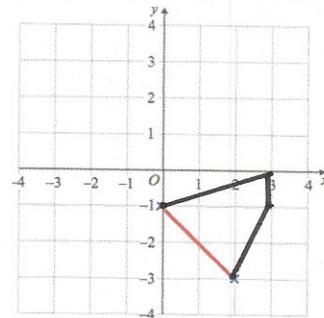
$$40 \div 5 = 8$$

$$8 \times 3 = 24$$



On the grid is one side of a quadrilateral with 3 acute angles.

Complete the quadrilateral





28th November

35% of 620

$$\begin{array}{r}
 10\% - 62 \\
 30\% - 186 \\
 5\% - \frac{31}{217} \\
 \hline
 \end{array}$$

217

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

$$\frac{4}{15} \times \frac{1}{4} = \frac{4}{60} =$$

1/15

What percentage of 20 is 17?

$$\begin{array}{r}
 \frac{17}{20} = \frac{85}{100} \\
 \underline{85\%}
 \end{array}$$

There are 40 beads in a bag.  
Each bead is either red or yellow.

12 beads are yellow.

12 yellow  
28 red

Write down the ratio of red beads to yellow beads

28:12

= 7:3

The mean of the numbers on these four number cards is 4.  $- \text{total } 16$

6	7	3	0
---	---	---	---

Find the missing number.



**29th November**

$1.9 \times 46$

$$\begin{array}{r}
 46 \\
 19 \\
 \hline
 4 \quad 4 \\
 46 \quad 0 \\
 \hline
 874
 \end{array}$$

87.4

$$\begin{array}{r}
 & 6 & 7 & 8 & 9 \\
 \times & & & 3 & 1 \\
 \hline
 & 6 & 7 & 8 & 9 \\
 2 & 0 & 3 & 6 & 7 & 0 \\
 \hline
 2 & 1 & 0 & 4 & 5 & 9
 \end{array}$$

210,459

There are 90 children in Year 6.

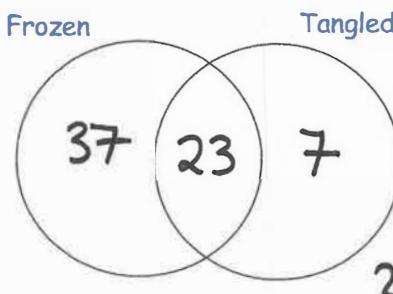
23 children have watched both the films Frozen and Tangled.

30 children have watched Tangled.

Twice as many children have watched Frozen than Tangled.

How many children have not watched Frozen or Tangled?

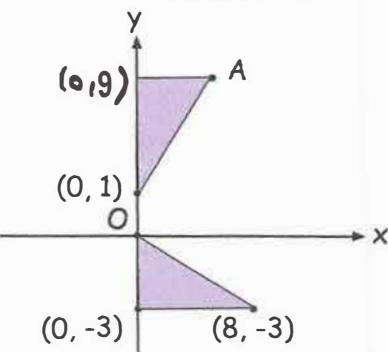
23



The two triangles are identical.

Find the coordinates of point A

(3,9)





30th November

$$1,755 \div 65$$

$$\begin{array}{r}
 27 \\
 65 \overline{)1755} \\
 130 \\
 \underline{+} 35 \\
 35 \\
 \underline{-} 35 \\
 0
 \end{array}$$

27

$$2^3 \times 3^2$$

$$8 \times 9 =$$

72

Brandon has completed his maths homework. Can you spot any mistakes?

Find the highest common factor of 18 and 36

Factors of 18: 1, 2, 3, 6, 9, 18  
 Factors of 36: 1, 2, 3, 4, 6, 9, 12, 18, 36

$$\text{HCF} = 9 \quad \text{HCF} = 18$$

Find the fraction halfway between

$$\frac{1}{4} \text{ and } \frac{2}{3}$$

$$\frac{11}{24}$$

$$\begin{array}{ll}
 \frac{1}{4} = \frac{3}{12} & 3 + 3 = 11 \\
 \frac{2}{3} = \frac{8}{12} & \frac{1}{2} = 5 \cdot 5 \\
 \frac{5 \cdot 5}{12} = \frac{11}{24} &
 \end{array}$$

An isosceles triangle has one angle of  $44^\circ$

Write down the possible sizes of the other two angles in the triangle.

Pair 1  $44^\circ$  and  $92^\circ$

Pair 2  $68^\circ$  and  $68^\circ$