



1st February

$\frac{3}{8}$ of 45,400

$$\begin{array}{r} 5675 \\ 8 \overline{) 45400} \\ \underline{8} \\ 4 \\ \underline{8} \\ 0 \\ \underline{0} \\ 0 \\ \underline{0} \\ 0 \end{array}$$

$$\begin{array}{r} 5675 \\ \times 3 \\ \hline 17025 \end{array}$$

17025

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

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

$$= \frac{16+9}{12} = \frac{25}{12}$$

$\frac{25}{12} = 2\frac{1}{12}$

Daisy is posting party invitations.

She has posted $\frac{3}{5}$ of the invitations.

Daisy has 30 invitations left to post.

How many invitations is Daisy sending out altogether?

30 is $\frac{2}{5}$
 15 is $\frac{1}{5}$
75 in total

The time taken for 4 children to complete a puzzle are:

12 minutes 10min
 600 seconds

half an hour 25 minutes
 30min

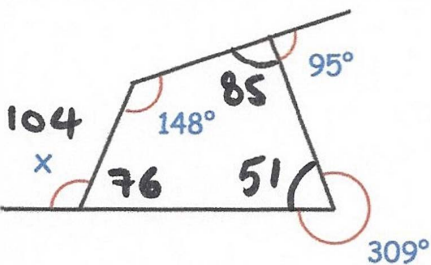
Work out the mean time taken

$$12 + 10 + 30 + 25$$

$$= 77$$

$$77 \div 4 = 19.25 \text{ minutes}$$

(19m 15 sec)



Find the size of angle x

$$148 + 85 + 51 = 284$$

$$360 - 284 = 76$$

$$180 - 76 = \underline{104}$$



2nd February

$$40 \div 2^2 + 12 \div 2$$

$$40 \div 4 + 6$$

$$= 10 + 6$$

16

$$3,254 \times 27$$

$$\begin{array}{r} 3254 \\ \times 27 \\ \hline 22778 \\ 65080 \\ \hline 87858 \end{array}$$

87858

Billy thinks of a number that is not zero.

He multiplies his number by -3

Tick the correct box

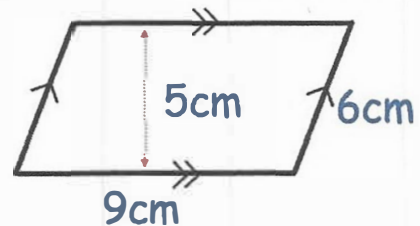
The answer is positive

The answer is negative

The answer could be positive or negative

Find the area of the parallelogram

$$5 \times 9 = \underline{45 \text{ cm}^2}$$



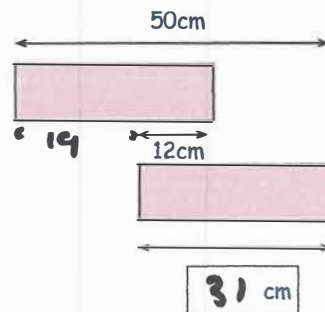
Shown are two identical rectangles

Find the length of one rectangle

$$50 - 12 = 38$$

$$38 \div 2 = 19$$

$$19 + 12 = 31$$





3rd February

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

$$\frac{1}{9}$$

$$\frac{3}{5} \times 340$$

$$340 \div 5 = 68$$

$$68 \times 3 =$$

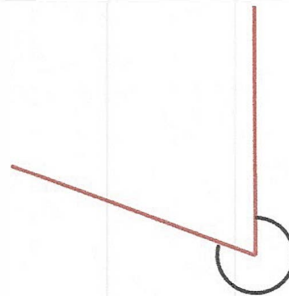
$$204$$

Write these numbers in order of size
Starting with the smallest

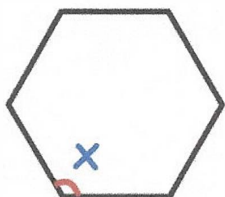
0.13 $\frac{3}{20}$ 12% $\frac{1}{10}$ 0.09
13% 15% 10% 9%

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

Measure the size of this angle



Shown is a regular hexagon



Find the size of angle x

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



4th February

$$1\frac{2}{3} - \frac{5}{6}$$

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

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

$\frac{5}{6}$

$$3.2 \times 202$$

$$\begin{array}{r} 202 \\ 32 \times \\ \hline 404 \\ 6060 \\ \hline 6464 \end{array}$$

646.4

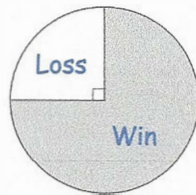
Hannah and Rory play tennis for their school.

The pie charts show information about their results

James says that Hannah has won more matches than Rory.



Hannah

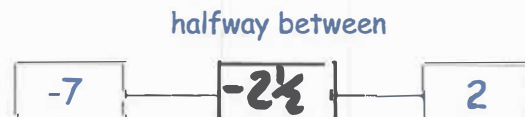


Rory

Explain how James might be correct

If Hannah has played more games

Find the missing number





5th February

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

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

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

$$100 - 15 \times 5$$

$$15 \times 5 = 75$$

$$100 - 75 =$$

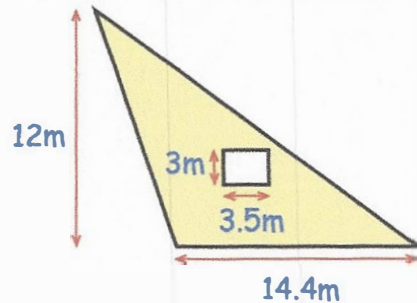
$$25$$

Work out the shaded area

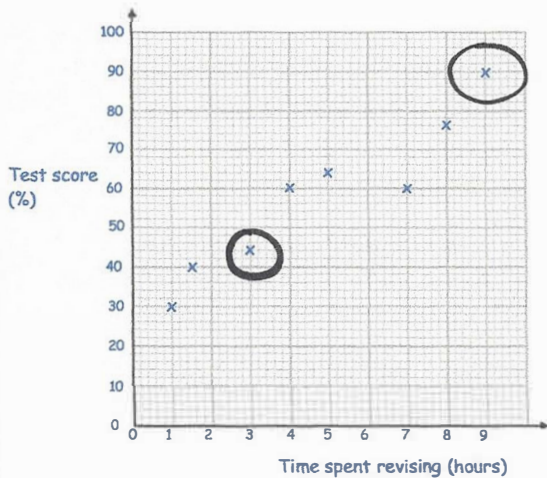
$$\begin{aligned} \text{Triangle} &= 12 \times 14.4 \div 2 \\ &= 86.4 \text{ m}^2 \end{aligned}$$

$$\text{Rectangle } 3 \times 3.5 = 10.5 \text{ m}^2$$

$$86.4 - 10.5 = \underline{75.6 \text{ m}^2}$$



This graph shows information about the time spent revising for a test and the test result for 8 students



What was the highest test score?

90

Daisy spent 3 hours revising.

What was her test score?

44



6th February

$$\begin{array}{r} 63 \\ 14 \overline{) 882} \end{array}$$

63

$$\begin{array}{r} 4156 \\ \times 23 \\ \hline 12468 \\ 83120 \\ \hline 95588 \end{array}$$

95588

Find the value of w when $c = 17$

$$w = 200 - 5c$$

$$5 \times 17 = 85$$

$$w = 200 - 85 \\ = \underline{115}$$

A website sells keyrings for £1.25 each.

When buying keyrings, you need to pay postage and packaging as well. Here are the prices for postage and packaging

Postage and Packaging	
1 to 10 keyrings	£2.50
11 to 20 keyrings	£5.50
21 to 30 keyrings	£7.50
31 to 100 keyrings	Free

Owen has £40 and buys as many keyrings as possible.

How many keyrings does Owen buy?

$$£40 \div 1.25 = 32$$

He can buy 32
and pay no p & p.





7th February

45% of 1,300

$$\begin{aligned} 10\% &= 130 \\ 40\% &= 520 \\ 5\% &= 65 \end{aligned}$$

585

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

$$\frac{15 + 4}{20}$$

$\frac{19}{20}$

25% of the children in a school have a dog.

10% of the children who have a dog also have a cat.

There are 12 children who have both a dog and a cat.

How many children go to the school?

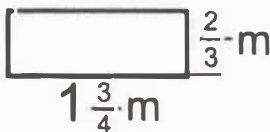
$$\begin{aligned} 10\% + 25\% &= 35\% \\ 35\% &= 12 \text{ children} \\ 25\% &= 120 \text{ children} \\ \therefore & \underline{480 \text{ children}} \end{aligned}$$

•	••	•••
Pattern 1	Pattern 2	Pattern 3
1	5	9
$4 \times 1 - 3$	$4 \times 2 - 3$	$4 \times 3 - 3$

Which pattern uses 77 dots?

$$\begin{aligned} 4n - 3 &= 77 \\ 4n &= 80 \\ n &= \underline{20} \end{aligned}$$

Jessica wants to attach fairy lights around the top of her wardrobe. She has $\frac{5}{4}$ m of ribbon



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

How much more ribbon does she need?

$$\begin{aligned} \frac{7}{4} + \frac{2}{3} &= \frac{21 + 8}{12} = \frac{29}{12} \\ \times 2 &= \frac{29}{6} = 4 \frac{5}{6} \\ \text{she needs } & \underline{\frac{5}{6} \text{ metre}} \end{aligned}$$



8th February

$$\begin{array}{r}
 297 \\
 \times 86 \\
 \hline
 1782 \\
 19760 \\
 \hline
 25542
 \end{array}$$

25,542

$$\frac{6}{11} \div 3$$

$\frac{2}{11}$

A shop sells drinks.

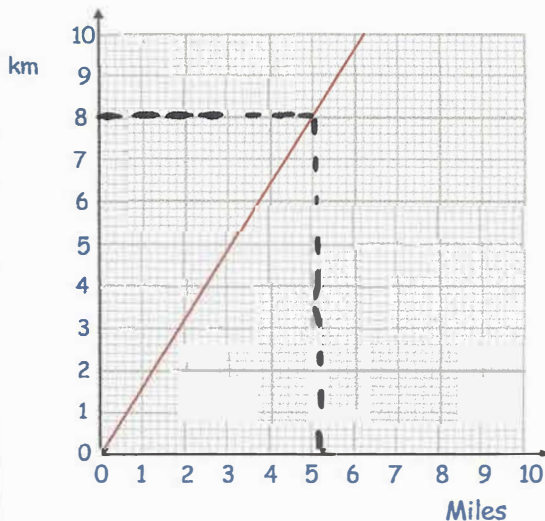
Harry buys 3 coffees and 2 teas for £9.90

Mia buys 3 coffees and 5 teas for £13.50

How much does one tea cost?

$$\begin{array}{l}
 3 \text{ teas cost} \\
 13.50 - 9.90 = \pounds 3.60 \\
 \pounds 3.60 \div 3 = \\
 \underline{\underline{\pounds 1.20}}
 \end{array}$$

This graph can be used to change between miles and kilometres



Change 5 miles into kilometres

8km

Change 20 miles into kilometres

$$8 \times 4 = \underline{\underline{32 \text{ km}}}$$



9th February

$$1\frac{4}{5} - \frac{2}{3}$$

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

$$= \frac{27 - 10}{15} = \frac{17}{15}$$

$$\frac{17}{15} \text{ or } 1\frac{2}{15}$$

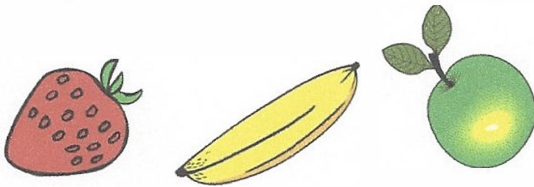
6% of 900

$$1\% = 9$$

$$6\% = 9 \times 6 =$$

54

Barry buys 0.5kg of strawberries,
4kg of bananas and 3kg of apples



Work out how much Barry spent on
strawberries.

$$11.20 - 9.70$$

$$= \underline{\underline{1.50}}$$

The total cost is £11.20

1kg of bananas cost £1.30 and
1kg of apples cost £1.50

$$4 \times 1.30 = 5.20$$

$$3 \times 1.50 = 4.50 +$$

$$\underline{\underline{9.70}}$$

Work out the cost of 20kg of strawberries

$$\frac{1}{2} \text{ kg costs } \pounds 1.50$$

$$1 \text{ kg cost } \pounds 3$$

$$20 \text{ kg cost } \underline{\underline{\pounds 60}}$$

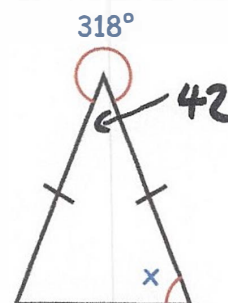
Find the size of the missing angle x

$$\begin{array}{r} 360 \\ - 318 \\ \hline 42 \end{array}$$

$$180 - 42 = 138$$

$$138 \div 2 = 69$$

$$\underline{\underline{x = 69}}$$





10th February

$$0.7 \times 60$$

$$7 \times 60 = 420$$

$$0.7 \times 60 = 42$$

42

$$80\% \times 1,800$$

$$10\% = 180$$

$$\begin{array}{r} 180 \\ \times 8 \\ \hline 1440 \end{array}$$

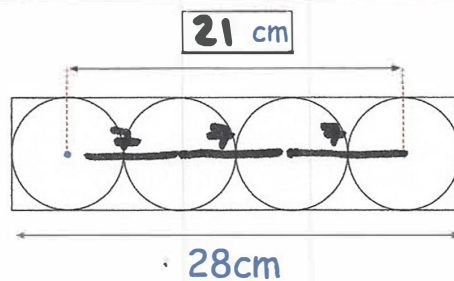
1440

Four identical circles fit inside a rectangle.

Find the distance between the centres of the first and fourth circle.

$$28 \div 4 = 7$$

$$7 \times 3 = 21$$



A 2p coin has a mass of 7 grams.
Find the total mass of £80 worth of 2p coins.

Give your answer in kilograms

$$£1 = 50 \text{ 2p coins}$$

$$£8 = 400 \text{ 2p coins}$$

$$4000 \times 7 = 28000\text{g}$$

28kg

This sequence increases by an equal amount each time.

Find the three missing numbers

$$30 - 13 = 17$$

$$17 \div 4 = 4\frac{1}{4}$$

13

$17\frac{1}{4}$

$21\frac{1}{2}$

$25\frac{3}{4}$

30

$$17\frac{1}{4} \quad 21\frac{1}{2} \quad 25\frac{3}{4}$$



11th February

$$19 - 2 \times 8$$

$$19 - 16 =$$

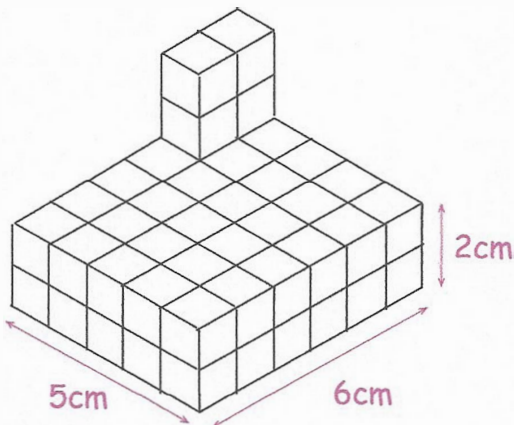
3

$$1\frac{1}{2} \times 68$$

$$\begin{array}{r} 1 \times 68 = 68 \\ \frac{1}{2} \times 68 = 34 \quad + \\ \hline 102 \end{array}$$

102

This shape is made from centimetre cubes.



How many more centimetre cubes are needed to make it into a solid cuboid 5cm wide, 6cm long and 5cm tall?

each layer needs

$$5 \times 6 = 30$$

required 3 more layers

$$= 90$$

$$- 4 = \underline{\underline{86 \text{ cubes}}}$$

A car travels at 60 miles per hour for 3 hours.

How far does the car travel?

$$\text{distance} = \text{speed} \times \text{time}$$

$$60 \times 3 = \underline{\underline{180 \text{ miles}}}$$





12th February

30% of 8,000

$$10\% = 800$$

$$30\% = 800 \times 3 =$$

2400

$$1,326 \div 26$$

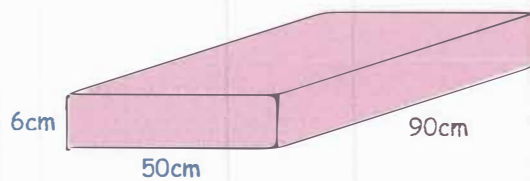
$$\begin{array}{r} 51 \\ 26 \overline{) 1326} \\ \underline{130} \\ 26 \\ \underline{26} \\ 0 \end{array}$$

51

Work out the volume of the cuboid

$$6 \times 50 = 300$$

$$300 \times 90 = \underline{\underline{27000 \text{ cm}^3}}$$



Work out the value of w

$$4w - 3 = w + 24$$

$$3w - 3 = 24$$

$$3w = 27$$

$$\underline{\underline{w = 9}}$$

Convert 4 kilometres into millimetres

$$4 \text{ km} = 4000 \text{ m}$$

$$= 400,000 \text{ cm}$$

$$= \underline{\underline{4,000,000 \text{ mm}}}$$



13th February

2.53×6

$$\begin{array}{r} 2.53 \\ \times \quad 6 \\ \hline 15.18 \end{array}$$

15.18

$4.32 \div 3$

$$\begin{array}{r} 1.44 \\ 3 \overline{)4.32} \\ \underline{3} \\ 13 \\ \underline{12} \\ 12 \\ \underline{12} \\ 0 \end{array}$$

1.44Write down the value of the **8** in the answer to

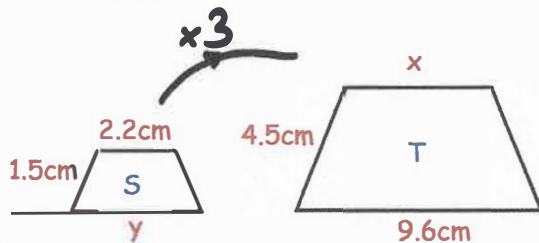
$1,470 \times 2,000 = 2,940,000$

$$\begin{array}{r} 147 \\ \times 2 \\ \hline 294 \end{array}$$

Nine hundred thousand

Trapezium S and trapezium T are similar

$4.5 \div 1.5 = 3$



Find the size of x

$x = 2.2 \times 3 = \underline{6.6 \text{ cm}}$

Find the size of y

$y = 9.6 \div 3 = \underline{3.2 \text{ cm}}$



14th February

$$\frac{1}{8} \times \frac{1}{2}$$

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

$$\frac{1}{16}$$

$$\begin{array}{r} 0647 \\ 15 \overline{) 9705} \\ \underline{15} \\ 70 \\ \underline{75} \\ 50 \\ \underline{50} \\ 0 \end{array}$$

$$647$$

Find the value of m when h = 32

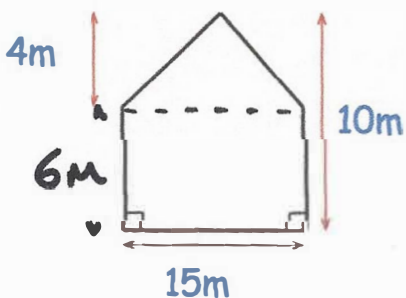
$$h = 35 - 6m$$

$$32 = 35 - 6m$$

$$6m = 3$$

$$m = \frac{3}{6} = \frac{1}{2} \text{ or } 0.5$$

Jack is painting the side of his house.
He has 8 litres of paint.
Each litre covers $16m^2$
Does Jack have enough paint?



$$6 \times 15 = 90$$

$$15 \times 4 \div 2 = 30$$

$$\text{total area} = 120m^2$$

$$8 \times 16 = 128m^2$$

Yes, he has $8m^2$ extra

$$\begin{array}{r} 16 \\ \times 8 \\ \hline 128 \end{array}$$





15th February

151,985 - 72,304

$$\begin{array}{r} 4 \\ 151985 \\ - 72304 \\ \hline 79681 \end{array}$$

79681

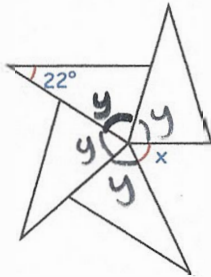
95% of 580

10% = 58

5% = 29

95% = 580 - 29 =

551



Shown are four identical isosceles triangles. Find x

$y = \frac{180 - 22}{2} = 79$

$4 \times 79 = 316$

$x = 360 - 316 = 44^\circ$

Write in the missing number so that the mean of the five cards is 10.



Mean = 10

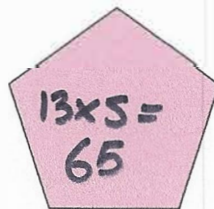
So total = 50

$13 + 5 + 18 + 2 = 38$

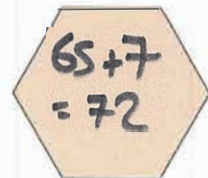
$50 - 38 = 12$

The perimeter of the regular hexagon is 7cm greater than the perimeter of the regular pentagon.

Find a $72 \div 6 = 12$



13cm



a



16th February

$$16 \times 1\frac{3}{4}$$

$$\frac{3}{4} \text{ of } 16 = 12$$

$$16 + 12 =$$

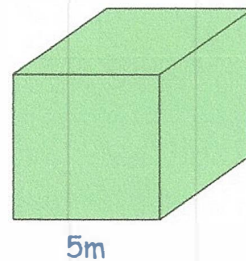
28

$$\begin{array}{r} 744 \\ \times 61 \\ \hline 744 \\ 44640 \\ \hline 45384 \end{array}$$

45384

Work out the volume of this cube.

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



5m

Write 1850 in Roman numerals

MDCCCL

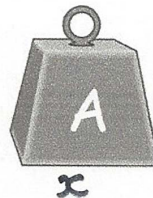
B is 7 times heavier than A
B is 15kg heavier than A

How heavy is B?

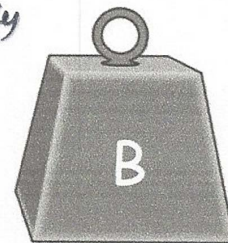
$$x \times 7 = x + 15$$

$$7x = x + 15$$

$$6x = 15 \quad x = 2.5$$

so B is 17.5kg

x



B



17th February

$$2\frac{2}{3} - \frac{5}{6}$$

$$2\frac{4}{6} = \frac{16}{6}$$

$$\frac{16}{6} - \frac{5}{6} = \frac{11}{6} \text{ (or } 1\frac{5}{6}\text{)}$$

$$\frac{11}{6}$$

$$121 \div 5$$

$$5 \overline{) 121.0}$$

$$\underline{24.2}$$

$$24.2$$

Find three different prime numbers that have a sum of 40

Primes:

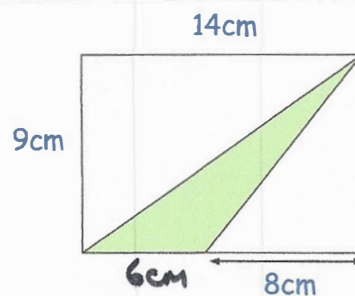
2, 3, 5, 7, 11, 13, 17, 19, 23,

29, 31, 37, ...

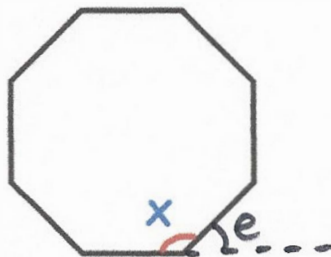
2 7 31

Find the shaded area

$$\text{Triangle} = 6 \times 9 \div 2 = 27 \text{ cm}^2$$



Shown is a regular octagon



Find the size of angle x

$$e = 360 \div 8 = 45$$

$$x = 180 - 45 = \underline{135^\circ}$$



18th February

235×45

$$\begin{array}{r} 235 \\ x 45 \\ \hline 1175 \\ 9400 \\ \hline 10575 \end{array}$$

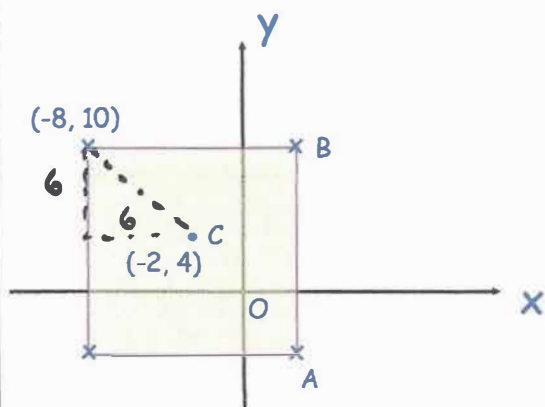
10575

$8^2 + 6^3$

$$\begin{array}{r} 64 \\ 36 \\ \times 6 \\ \hline 216 \\ 216 \\ 64 \\ \hline 280 \end{array}$$

280

Shown is a square.
C is the centre of the square.



Find the coordinates of A

(4, -2)

B

(4, 10)

Megan feeds her cat $\frac{2}{5}$ of a can of cat food each day.

How many cans of cat food are eaten each fortnight? = 14 days

$$\frac{2}{5} \times 14 = \frac{28}{5}$$

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





19th February

$100^2 + 9,600 = 100^2$

$100^2 = 10,000$

$9600 + 400 = 10,000$

$\sqrt{400} = 20$

20

$79,333 + 65,098 + 9,999$

7	9	3	3	3	
6	5	0	9	8	
		9	9	9	+
<hr/>					
1	5	4	4	3	0
	2	1	2	2	

154,430

Which fraction is greater?

$\frac{3}{7}$ or $\frac{4}{9}$

$\frac{3}{7} = \frac{27}{63}$

$\frac{4}{9} = \frac{28}{63}$


Georgie is 7 years old today.

How many days old is she?

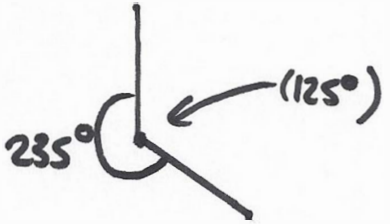
255
(not including leap years!)

$365 \times 7 = 2555$

3	6	5	
x		7	
<hr/>			
2	5	5	5
	4	3	



Draw a 235° angle



$360 - 235 = 125$



20th February

61×283

$$\begin{array}{r} 283 \\ \times 61 \\ \hline 283 \\ 16980 \\ \hline 17263 \end{array}$$

17263

$$\frac{2}{3} = 0.\dot{6}$$

$\frac{2}{3}$

(or any equivalent fraction!)

m is a whole number.

$7m$ is greater than 50

$10m$ is less than 115

Write all the numbers that m could be

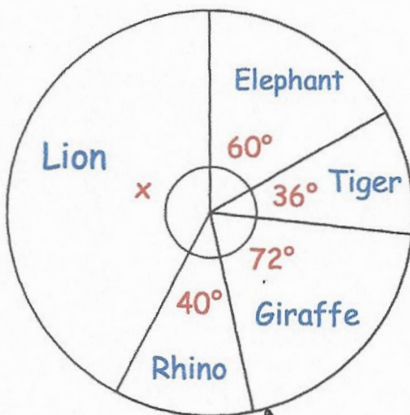
8, 9, 10, 11

$7 \times 7 = 49$ $7 \times$ (too small)

$10 \times 12 = 120$ $12 \times$ (too big)

$\therefore 8, 9, 10, 11$

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



Find the size of the angle x .

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

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

What fraction of children liked Rhinos best?

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



21st February

$$10 - 3^2$$

↖ 9

1

$$3,263 \div 13$$

$$\begin{array}{r} 251 \\ 13 \overline{) 3263} \\ \underline{32} \\ 0 \\ \underline{06} \\ 03 \\ \underline{03} \\ 0 \end{array}$$

251

Hannah is baking two cakes

One cake needs $\frac{7}{8}$ cups of milk

Hannah has 1 cup of milk

How much more milk does Hannah need?

$$\frac{7}{8} \times 2 = \frac{14}{8} = \frac{7}{4} = 1\frac{3}{4}$$

\therefore she needs $\frac{3}{4}$ cup more

Find the highest common factor (HCF) of 24 and 40.

24: 1, 2, 3, 4, 6, 8, 12, 2440: 1, 2, 4, 5, 8, 10, 20, 40

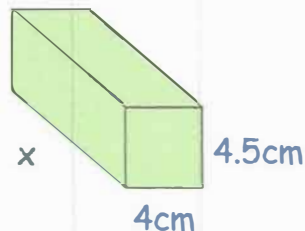
8

Find the length of this cuboid

$$4.5 \times 4 = 18$$

$$18 \overline{) 432} \begin{array}{r} 24 \\ \underline{36} \\ 72 \\ \underline{72} \\ 0 \end{array}$$

24cm

Volume: 432cm^3 



22nd February

$$\frac{5}{8} - \frac{1}{3}$$

$$\frac{15}{24} - \frac{8}{24}$$

$$\frac{7}{24}$$

40% of 70

$$10\% = 7$$

$$7 \times 4 = 28$$

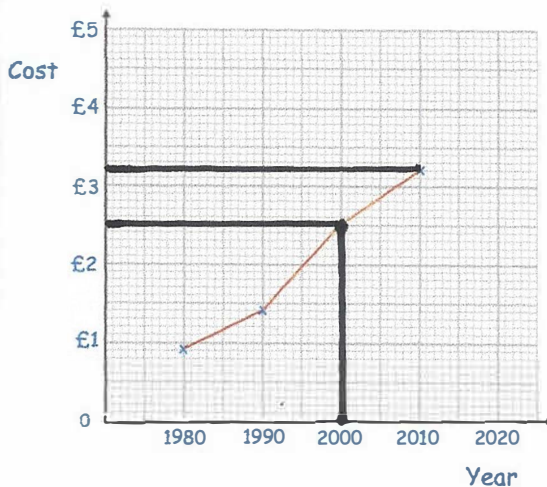
$$28$$

Write 0.375 as a fraction.
Give your answer in its simplest form.

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

$$\frac{375}{1000} = \frac{75}{200} = \frac{15}{40} = \frac{3}{8}$$

The line graph below shows the cost of a coffee in a shop over 30 years.



In which year was the price £2.50

2000

Estimate the price of a coffee in 2010.

£3.20



23rd February

$$2.3 \times 56$$

$$\begin{array}{r} 56 \\ \times 23 \\ \hline 168 \\ 1120 \\ \hline 1288 \end{array}$$

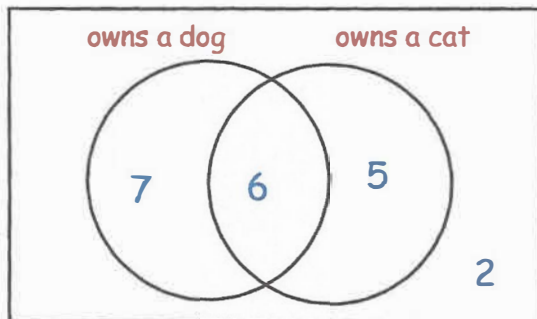
128.8

$$15\% \times 840$$

$$\begin{array}{r} 10\% - 84 \\ 5\% - 42 \\ \hline 126 \end{array}$$

126

The Venn diagram shows information about the pets owned in a class.



How many children own a cat?

$$6 + 5 = 11$$

What percentage of children do not own a dog or a cat?

$$7 + 6 + 5 + 2 = 20$$

$$\frac{2}{20} = \frac{1}{10} \quad \underline{10\%}$$

Work out the value of y

$$4y - 7 = 2y + 15$$

$$y = 11$$

$$\begin{array}{l} 4y - 7 = 2y + 15 \\ 2y - 7 = 15 \quad (-2y) \\ 2y = 22 \quad (+7) \\ y = 11 \quad \div 2 \end{array}$$



24th February

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

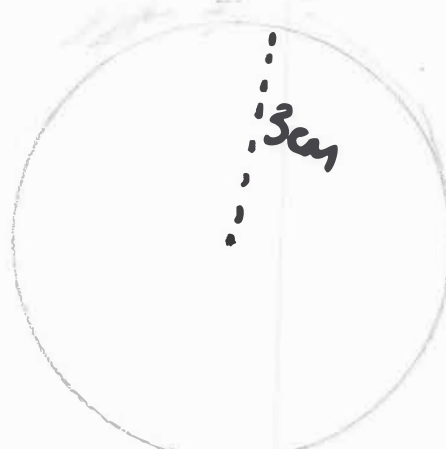
$$7 \times 5 + 3 = 38$$

38

$$\begin{array}{r} 36 \\ 26 \overline{) 936} \\ \underline{78} \\ 156 \end{array}$$

36

Draw a circle with a radius of 3cm.



What size is the diameter of the circle?

6cm

There are red, white and yellow counters in a bag.

For every 3 red counters, there are 2 white counters.

There are 25% more yellow counters than red counters.

If there are 40 white counters in the bag, how many yellow counters are there?

$$3:2 = 60:40$$

so 60 red

$$25\% \text{ more is } 60 + 15 = \underline{75}$$



25th February

$1,094 \times 28$

$$\begin{array}{r} 1094 \\ \times 28 \\ \hline 8752 \\ 21880 \\ \hline 30632 \end{array}$$

30632

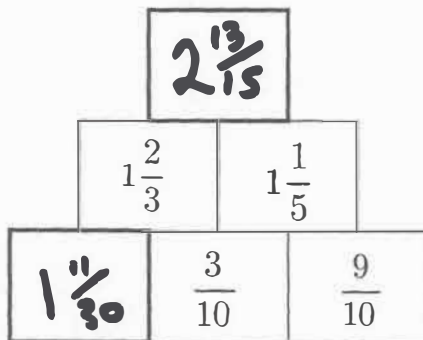
$7 + 22 \times 12 + 18$

$$\begin{array}{r} 22 \\ \times 12 \\ \hline 44 \\ 220 \\ \hline 264 \end{array}$$

$7 + 264 + 18 =$

289

In this pyramid, the number in each box is the sum of the two numbers below it.



Find the two missing numbers

$$1\frac{2}{3} - \frac{3}{10} = \frac{50}{30} - \frac{9}{30} = \frac{41}{30} = 1\frac{11}{30}$$

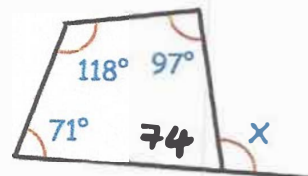
$$1\frac{2}{3} + 1\frac{1}{5} = \frac{5}{3} + \frac{6}{5} = \frac{25 + 18}{15} = \frac{43}{15} = 2\frac{13}{15}$$

Find the size of angle x

$118 + 97 + 71 = 286$

$360 - 286 = 74$

$180 - 74 = \underline{106}$





26th February

8^3

$$8 \times 8 = 64$$

$$\begin{array}{r} 64 \\ \times 8 \\ \hline 512 \end{array}$$

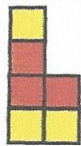
512

$4752 \div 11$

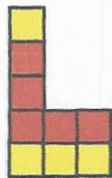
$$\begin{array}{r} 432 \\ 11 \overline{)4752} \end{array}$$

432

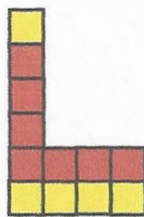
Here is a pattern of red and yellow squares



Pattern 1



Pattern 2



Pattern 3

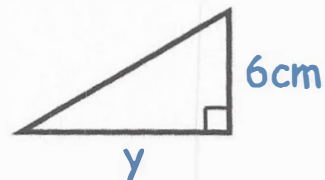
Which of the following are true?

- A Pattern 10 has 11 yellow squares
- B The number of red squares is always odd
- C Every pattern has more red squares than yellow squares
- D Pattern 5 has 11 red squares

The area of this triangle is 30cm^2

Find the length of the base of the triangle, y .

10cm





27th February

$$- 12 - 23$$

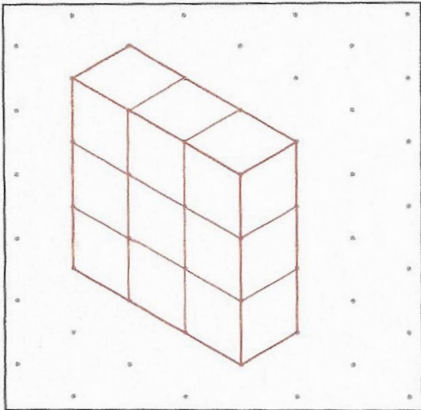
$$- 35$$

$$1,593,202 - 730,095$$

$$\begin{array}{r} 1593202 \\ - 730095 \\ \hline 863107 \end{array}$$

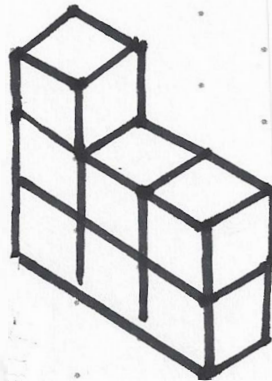
$$863,107$$

Ethan uses nine cubes to make a cuboid.



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

Draw what the new shape could be



(for example)

$$12,432 \div 168 = 74$$

Explain how this fact can be used to answer 73×168

$$74 \times 168 = 12432$$

$$- 168 \text{ to get } 73 \times 168$$

$$= 12264$$



28th February

519×72

$$\begin{array}{r} 519 \\ \times 72 \\ \hline 1038 \\ 36330 \\ \hline 37368 \end{array}$$

37 368

$8 \times \frac{2}{5}$

$\frac{16}{5}$ or $3\frac{1}{5}$

Here is a pattern of number pairs

a	b
1	13
2	18
3	23
4	28

$+5$
 $+5$
 $+5$

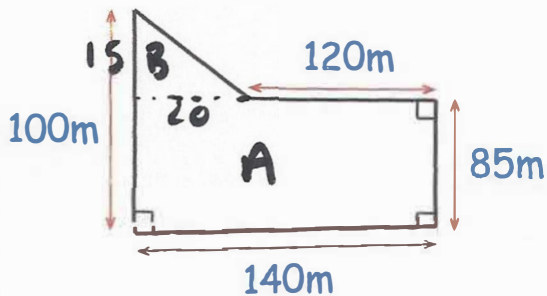
Complete the rule for the number pattern

$b = \boxed{5} \times a + \boxed{8}$

Farmer Patrick keeps chickens in the field below

Each chicken needs $3m^2$

What is the maximum number of chickens that he can keep?



$A_{\text{Area}} = 140 \times 85 = 11900$

$B_{\text{Area}} = \frac{1}{2} \times 20 \times 15 = 150$

$\text{Total} = 12050 m^2$

$12050 \div 3 = 4016.6 \dots$

4016 chickens



29th February

$$5.6 \times 3,000$$

$$5.6 \times 3 = 16.8$$

$$16.8 \times 1000 =$$

16800

$$20\% \text{ of } 24$$

$$10\% = 2.4$$

$$20\% = 4.8$$

4.8

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

Write the year MCMXCI in figures

1991



There are 32 beads in a bag.
Each bead is either blue or yellow.

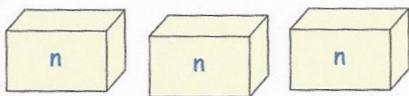
8 beads are blue.

8 blue 24 yellow

Write down the ratio of blue beads to yellow beads

8:24 (or 1:3)

Megan has three boxes.
Each box contains n beads.



She puts all her beads together and then removes 2 of them.

Write down how many beads Megan has?

$3n - 2$