

1st June

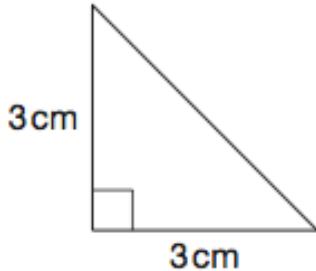
The numbers 1 to 12 inclusive are placed in a hat. John takes a number out of the bag at random.

What is the probability it is a 5?

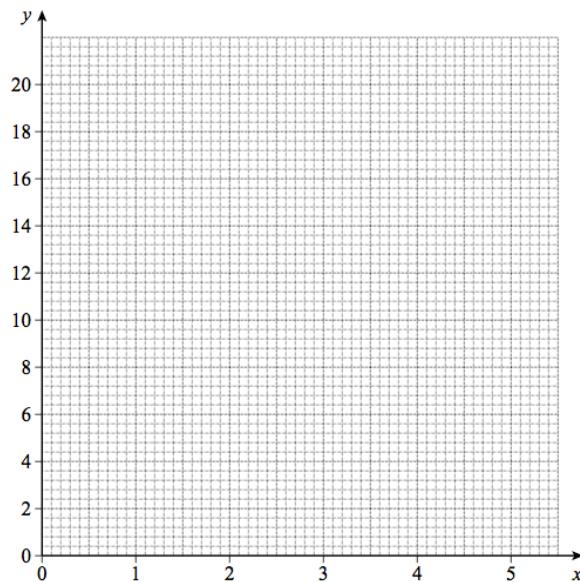
What is the probability it is an odd number?

Increase £8 by 30%

Increase £8 by 35%



Find the area of this triangle



Complete the table of values for $y = 3x + 3$.

x	0	1	2	3	4	5
y						

On the grid draw the graph of $y = 3x + 3$ values of x from 0 to 5

2nd JuneWork out 10^3

Work out the cube root of 64

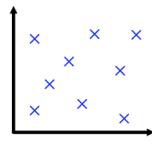
Write down £1.50 as a fraction of £5

Write that answer as a percentage

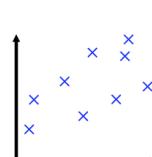
Solve $5y - 2 = 28$

Solve $6(y + 2) = 54$

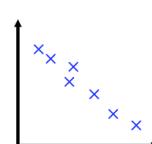
Match each scatter graph to the best description of the type and strength of correlation.



Strong positive correlation



Weak positive correlation



No correlation

Weak negative correlation

Strong negative correlation

**3rd June**

Arrange these in order, starting with the smallest.

$$2^2 \quad \sqrt[3]{27} \quad 1^3 \quad \sqrt{25}$$

$$\text{Expand } y(6 - 2y^2)$$

$$\text{Expand } 4h(2h - 3)$$



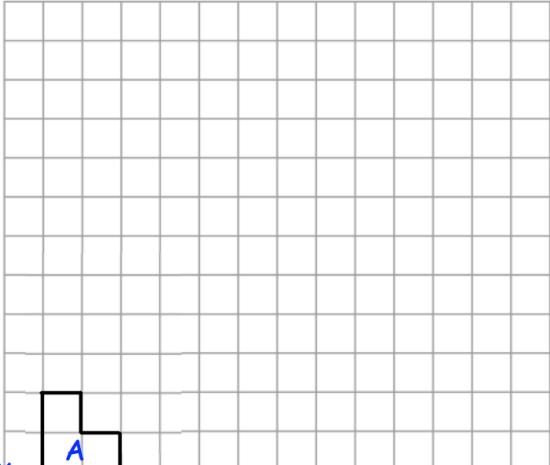
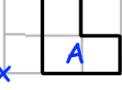
What is the bearing of Donhampton from Leek?

A helicopter is 25 miles from Castletown on a bearing of 200° .

Mark it's location on the map.

Factorise completely

$$10xy + 6x^2$$

4th June		 Corbettmaths
Simplify $a + a + a + a$	Simplify $5a + 3b - a - 5b$	
Victor is x years old. David is four years younger than Victor, Write an expression for David's age	Nicky is half of Victor's age. Write an expression for Nicky's age.	
Starter Soup Mushrooms	Main Chicken Beef Fish	Hannah had soup for her starter. Write down all her possible options
 P 	Translate shape A using the vector $\begin{pmatrix} 0 \\ 4 \end{pmatrix}$	Enlarge shape A by scale factor 3, using point P as the centre of enlargement.

5th June

Write 52% as a decimal

Write 0.55 as a fraction in its simplest form

$$\frac{5}{9} \times 27$$



Bag 1 Bag 2

Bag 1 contains £9.20 in 5p coins.
 Bag 2 contains twice as many coins as Bag 1.
 If Bag 2 contains only 50p coins.

How much more money is in Bag 2 than Bag 1?

Complete the table

	Square	Rhombus	Trapezium
Number of pairs of parallel sides	2		
Diagonals always equal in length			No

Susan has some beads in a bag.
 5 of the beads are orange.
 3 of the beads are purple.
 The rest of the beads are pink.
 Susan takes a bead from the bag at random.
 The probability that she takes a pink bead is $\frac{3}{5}$

How many pink beads are in the bag before Susan takes a bead?

6th June

$\boxed{\quad} + \boxed{\quad} = \boxed{0}$



Corbettmaths

$\boxed{\quad} + \boxed{\quad} = \boxed{3}$

Use the cards above to complete the sums.

Benjamin is starting a new training program.
 Each month he increases the distance he runs by $\frac{3}{10}$
 In month 1 he ran 20 miles.

How far does Benjamin run in month 2?

How far does Benjamin run in total over the first three months?

Using the information that

$$42 \times 31 = 1302$$

write down the value of (a) 42×62

$$(b) 42 \times 32$$

Find the value of:

$$\underline{3w + 1}$$

$$\underline{10}$$

When $w = 7$

Three quarters of a number is 27.
 What is two ninths of the number?

7th June

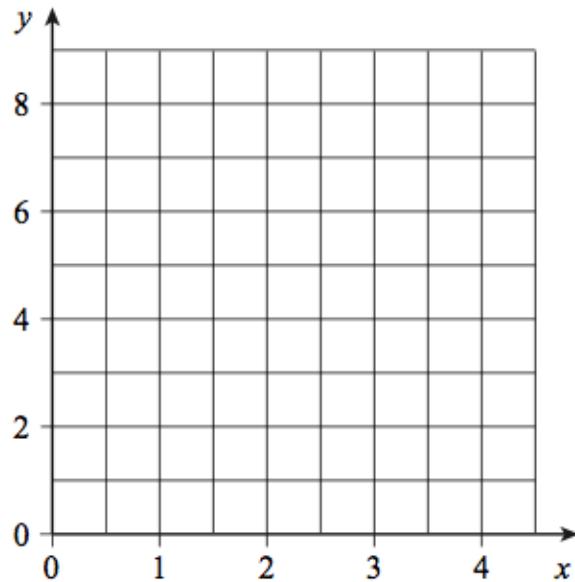
Work out
 $3 \times (2 + 4)$

$$2 \quad \square \quad 5 \quad \square \quad 10 = 0$$

Put the correct operations into the boxes to make the sum correct

Work out the cube of 4

Work out the square of 18.5



Complete the table of values for the graph $x + y = 6$

x	0	1	2	3	4
y		5			

On the grid, draw the graph of $x + y = 6$.

Mr Jones is given a pay rise.
 Before the pay rise he received £10 an hour.
 After the pay rise he received £25 an hour.

Calculate the percentage increase.

8th June

-2×6

$-14 \div -7$

Caroline says if you subtract two consecutive square numbers, the answer is always odd.

Is she correct?

Sophie says if you square a number, the answer is always bigger.

Explain why she is wrong.

Calculate the nth term

15 17 19 21 23 25

Work out the 20th term in the sequence

Mrs Jenkins is organising a charity raffle.
She sells 300 tickets for £3 each.
The probability that someone wins a prize is 0.2
Each prize cost £8
The profit is donated to charity.

Work out how much money Mrs Jenkins donates to charity.

9th June

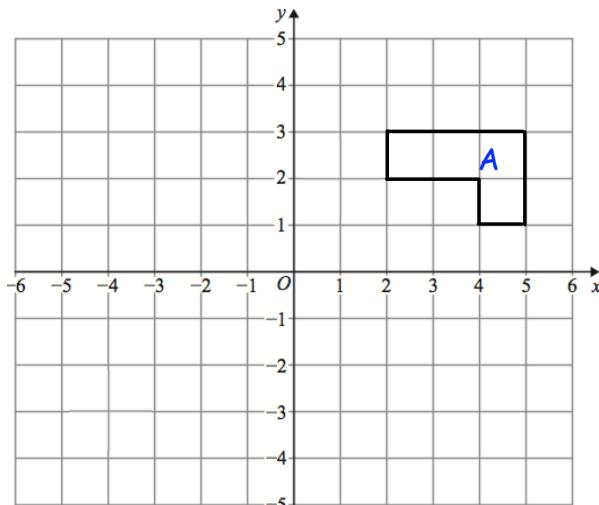
Find the mean of:

21 25 27 20 23 26 28 22

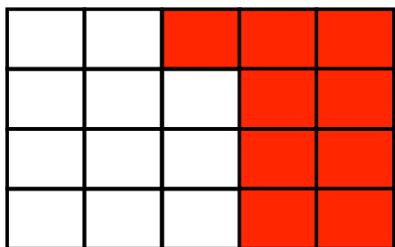
Simplify

 $5x \times 7w$

Simplify

 $2w \times 3w$ Rotate shape A 180° about $(0, 0)$ Reflect shape A using the mirror line $x = 1$

Share \$320 in the ratio 2:3

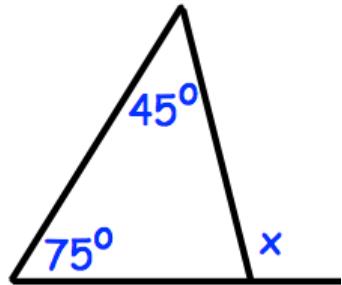
10th June

What percentage of the shape is shaded?

7 4 3 8 12 8 7 1 5 7 7

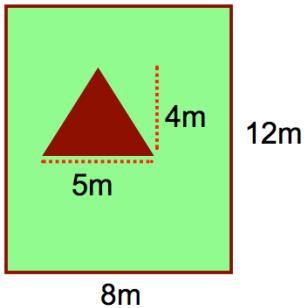
Find the mode

Find the range



Find the median

Find x



The garden has a triangular vegetable patch and the rest of the garden is grass.
Calculate the area of the garden that is grass.

Factorise

$$15y + 20$$

11th June

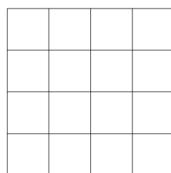
Write as a mixed number

$$\begin{array}{r} 11 \\ - 3 \\ \hline \end{array}$$

Harry wants to shade whole squares so that exactly

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

is shaded.
Explain why this is not possible.



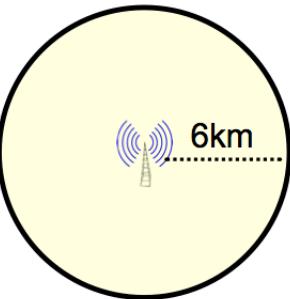
Martin says the next number after a square number is always prime.
He is wrong.

Write down two square numbers where the next number is not prime.

$$\frac{7}{20} + \frac{1}{5}$$

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

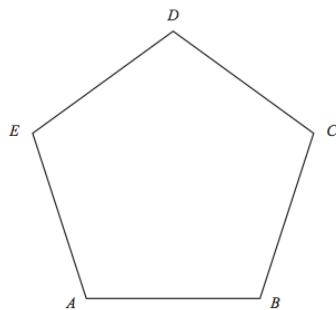
Write 100 as a product of primes

12th June	
A tea costs 45p What is 45p as a fraction of £1.35	 Corbettmaths Give your answer in its simplest form.
Expand $5(a + c)$	Expand $10(x + 4)$
Calculate the nth term 3 7 11 15	Is 501 a term in the sequence?
Use your calculator to work out the value of <u>2.12 × 5.2</u> <u>9.21 - 2.8</u> Write down all the figures on your calculator display.	
Calculate the area of the circle	

13th June

Using the digits 5, 8 and 9 only once in each number:

Write as many three-digit numbers as you can



Draw all the lines of symmetry on the pentagon.

What is the order of rotational symmetry?

Expand $5(x + 3)$

Expand $y(2y + 1)$

A car repair garage records information about the cars it repairs.

Put a cross in the box to indicate whether each of the following is discrete or continuous data.



The weight of the car

Discrete

Continuous

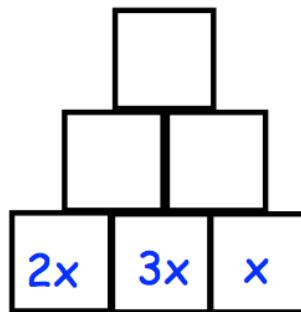
The number of gears

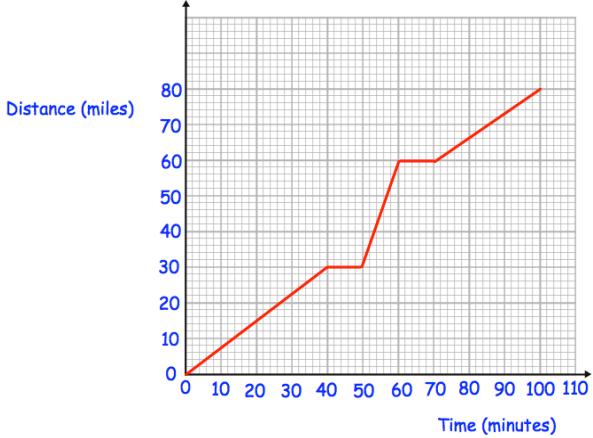
Discrete

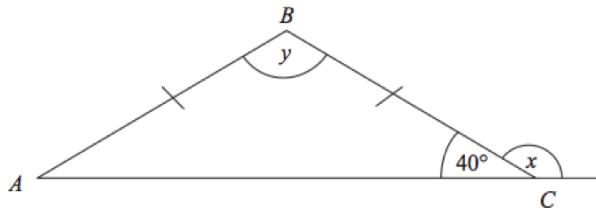
Continuous

The expression in each block is found by multiplying the two blocks directly beneath it.

Find the missing expressions.



14th June		Corbettmaths
7 7 7 8 2 8 7 7 5	Find the median	
Find the mode		
Find the range		
Simplify $9m - 2m$	Simplify $m + m + m + m + m$	
George is going on holiday to Poland George changes £180 into Zloty. The exchange rate is £1 = 5 Zloty Work out how many Zloty George gets for £180.		
 Distance (miles) Time (minutes)	James went on a journey. How many times did James stop for a break? How far did James travel in total? How long was James stationary for?	

15th June

Find x

Find y

A bag contains 10 discs.
 Each disc is labelled with a different number from 1 to 10.
 A disc is chosen from the bag at random.
 Write down the probability that the chosen disc is

(a) a number less than four

(b) a prime number

In one week, Gina spent x minutes on the internet.
 Sammy spent 15 minutes less than Gina.

 Write down an expression for how long Sammy spent on the internet.



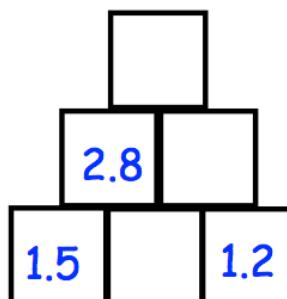
Find the bearing of D from C

Find the bearing of C from D

16th June

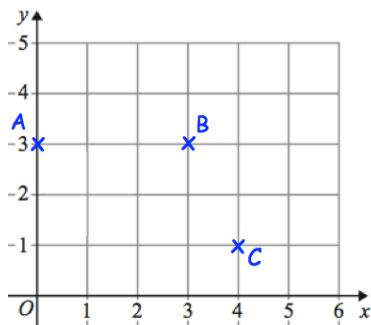
The number in each block is found by adding the two blocks directly beneath it.

Find the missing numbers.

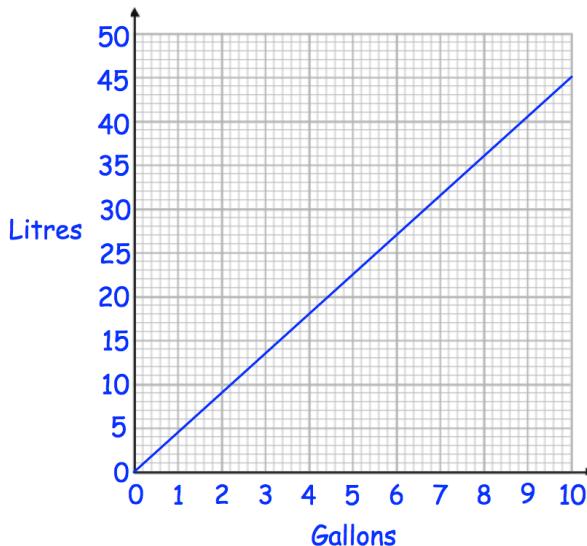


Find the mean of

4 2 5 8 6 4 2 3 5 1



ABCD is a parallelogram.
Write down the coordinates of D



Use the graph to convert 6 gallons to litres.

Use the graph to convert 10 litres to gallons.

17th June

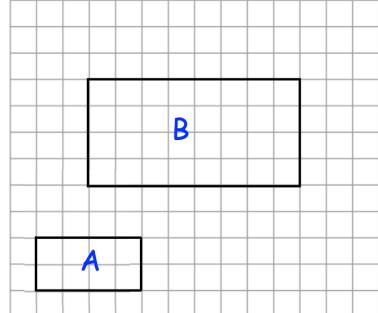
Nottingham 101	Manchester 158	56	Liverpool	
446	346	348	Glasgow	

What is the distance between Manchester and Glasgow?

Write down the names of the two cities which are least distance apart?

Scott has a rope 8 metres long.
He says, "I need 9 pieces each 0.89 metres long."

Will Scott have enough ribbon?

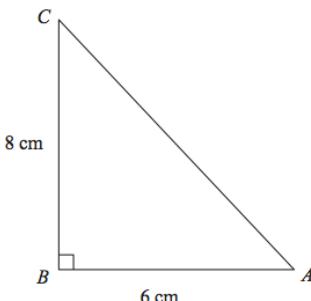


Rectangle B is an enlargement of rectangle A.

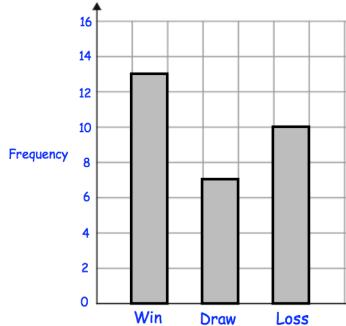
What is the scale factor of the enlargement?

Write these numbers in order of size.
Start with the smallest number.

$$65\% \quad \frac{7}{10} \quad 0.68 \quad \frac{2}{3} \quad \frac{3}{5}$$

18th June

Calculate the area of the triangle



How many matches did the team play?

Increase \$5000 by 3%

Decrease 600cm by 40%

Using the information that

$$3.9 \times 62 = 241.8$$

write down the value of (a) 3.9×620

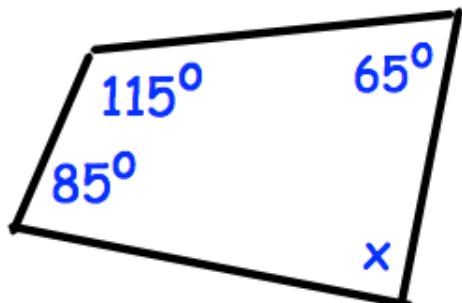
$$(b) 39 \times 0.62$$

The timetable for a flight from London to Beijing is shown.

Departure from London	5 August 20:25
Arrival in Beijing	6 August 13:10

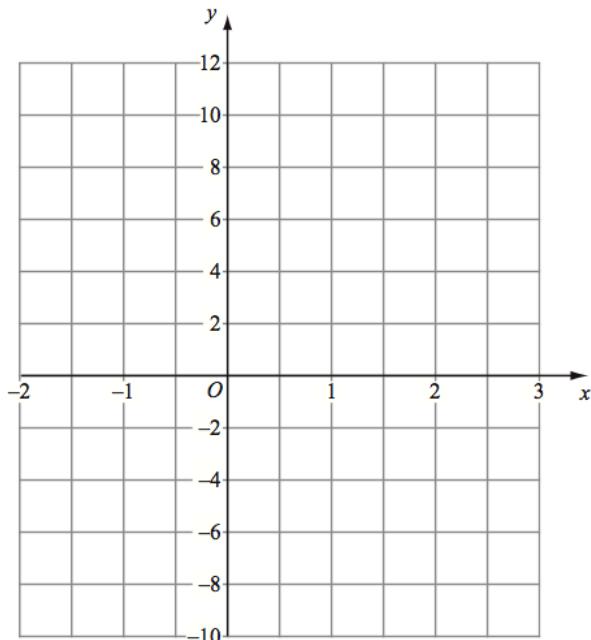
When it is 1pm in London, it is 8pm in Beijing.

How long should the journey take? Give your answer in hours and minutes.

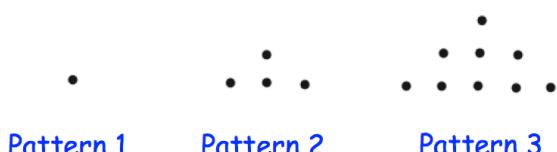
19th JuneFind x

A DVD costs £6.79 each.

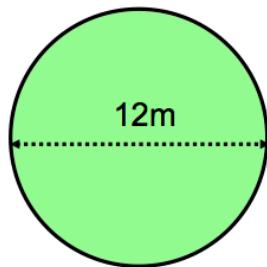
Work out the cost of 5 DVDs.

Complete the table of values for $y = 6 - 4x$.

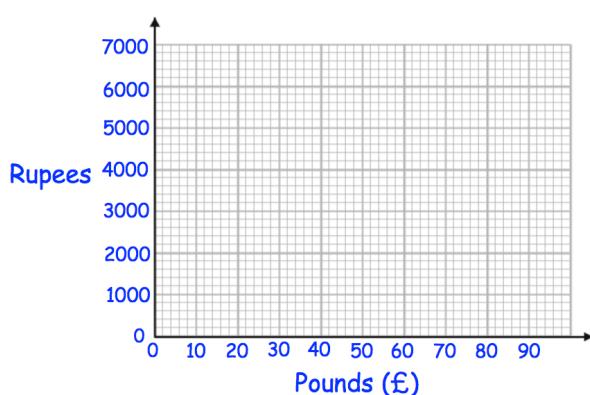
x	-1	0	1	2	3
y			2		-6

On the grid, draw the graph of $y = 6 - 4x$ for values of x from -1 to 3 .

How many dots are needed to make Pattern 10?

**20th June**Find the value of $2x + 3$ When $x = 10$ Find the value of $10 - 2x$ When $x = 4$ Simplify $m + m + m + m + m$ Simplify $6y + 10 + 2y - 8$ 

Find the circumference of the circle



The exchange rate to change pounds into Indian rupees is £1 = 90 Rupees

Complete the table below.

Pounds	0	1	10	50
Rupees	0	90		

Draw a conversion graph for converting between pounds and rupees.

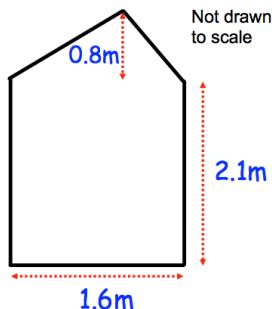
21st June

Solve $3w = 12$

Solve $w - 7 = 4$

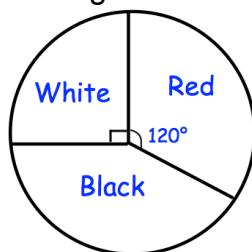
200 ml**60 litres****50 ml****6 litres****600 litres**

Arrange in order from smallest to largest.



Find the area

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



What fraction of the counters are white?
Give your answer in its simplest form.

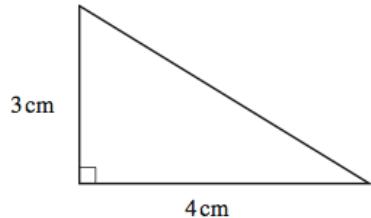
What fraction of the counters are red?
Give your answer in its simplest form.

There are 48 counters in the bag.
Work out how many counters are black.

**22nd June**

A map has a scale of 1cm : 3 miles.
On the map, the distance between two towns is 7cm.

What is the actual distance between the two towns?



Draw a rectangle with the same area as this triangle.

$$\text{Solve } 2y - 4 = 29$$

$$\text{Solve } 10(y + 3) = 51$$

Which is larger?

$$\frac{1}{2} \text{ of } 280 \quad \text{or} \quad \frac{3}{8} \text{ of } 400$$

Miss Jones gives her class a test.
The test is out of 50 marks.

Here are their scores.

41 27 29 35 32
38 32

Work out the median.

23rd June

Solve

$$\mathbf{W - 2 = 5}$$

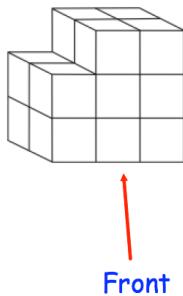
Solve

$$\frac{\mathbf{W}}{5} = \mathbf{2}$$

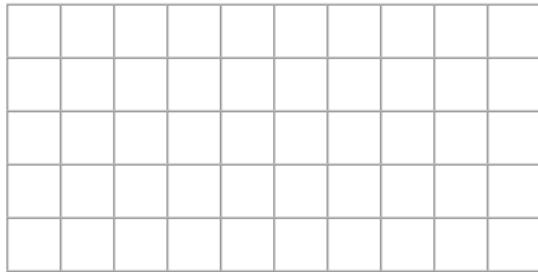


Shown is a regular pentagon.

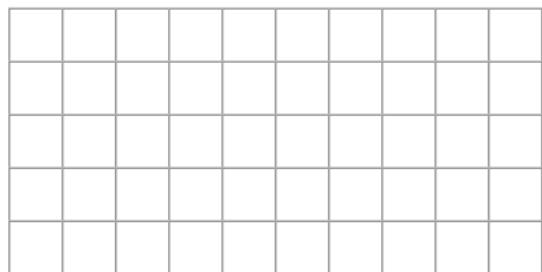
What is the size of each interior angle?



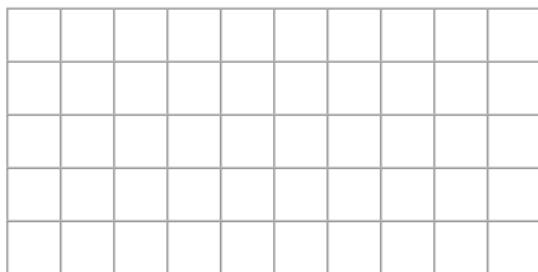
Draw the front elevation.



Draw the side elevation.



Draw the plan view.



Shown below is a 2 pence coin.



: 0.185cm

Each 2 pence coin is 0.185cm thick.
 Stephen builds a tower of 450 2p coins.

How tall is the tower?

24th June

Peter buys 297 packets of crisps at 21p each.

Estimate the total cost.

Fred is 26 years old.
Hannah is y years younger than Fred.
Write an expression for Hannah's age.

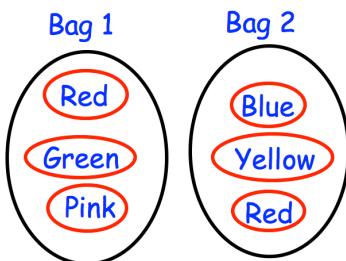
This timetable shows the times (GMT) of trains between London and Paris.

London	04 21	05 19	06 39	07 59
Paris	07 11	08 09	09 29	10 49

Paris	14 40	15 28	17 00	18 49
London	17 30	18 18	19 50	21 39

Tom arrives in Paris at 09:29.
He spends the next 7 hours visiting tourist attractions in Paris.
What is the time of the next train he can catch back to London?

Rob takes a counter at random from bag 1 and a counter at random from bag 2.

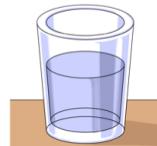


How long does each journey take?

Write a list of all the possible combinations of the two counters that Rob can take.

**25th June**

Shown below is a glass of water.



Below are four estimates of the amount of water in the glass. Circle the most appropriate estimate.

15ml 1.5L 150ml 15L

The express bus from Dublin to Belfast takes x minutes.
The standard bus takes 42 minutes longer.



Write down an expression for the time the standard bus takes.

The airplane takes half the time the express bus takes.



Write down an expression for the time the airplane takes.

Hannah is recording the number of letters in each word in an article.

Work out the median.

These are the first ten lengths.

3	4	5	6	2
4	3	7	3	6

The 11th word has 4 letters.

The mean will decrease

The mean will remain the same

The mean will increase

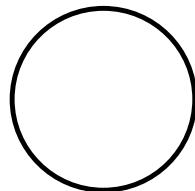
Tick the box which describes what affect this will have on the mean.

26th June**Solve**

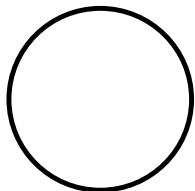
$$8w = 48$$

Solve

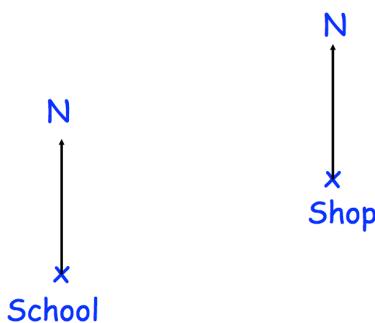
$$5y + 3 = 68$$



Draw the radius



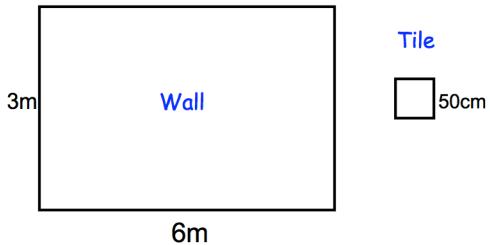
Draw the diameter



The scale of the map is 1cm = 100m.
Work out the real distance between the school and the shop.
Give your answer in metres.

Express 40p as a fraction of £5

Not to scale



Rosie is tiling her bathroom wall.
The wall is 6m by 3m.
Each square tile is 50cm by 50cm.
Each tile cost £3.

Calculate the cost of tiling the wall.

27th June

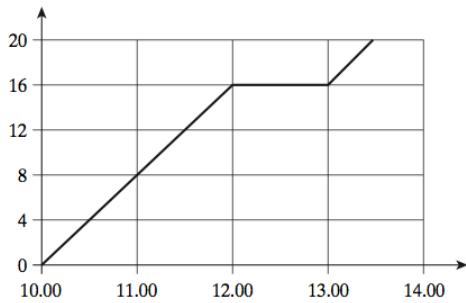
Which is larger?

$$\frac{17}{30}$$

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

Using the information that

$$47 \times 23 = 1081$$

write down the value of 470×230 

The graph shows the distance from home at each time.

How far was Natalie from home at 10:30?

What happened between 12:00 and 13:00

Calculate Natalie's speed from 10:00 and 12:00

Each member of a club is going to receive a badge.

There are 560 members.

The badges are sold in packs of 9.

Work out the least number of packs of badges that need to be bought.

28th June

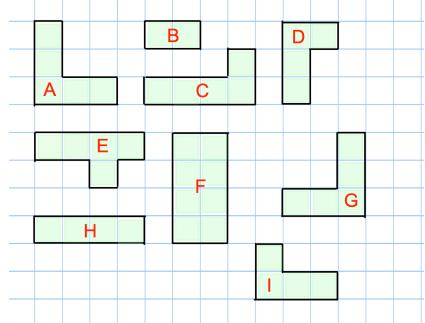
Last year Melissa was paid £2200 per month.
Last year Natalie was paid £3200 per month.

Melissa's salary is increased by $\frac{3}{5}$.
Natalie's salary is increased by $\frac{1}{8}$.

Who is paid more each month this year?

$$\frac{3}{8} + \frac{2}{5}$$

$$\frac{7}{10} \div \frac{5}{6}$$



Find a shape that is congruent to A.

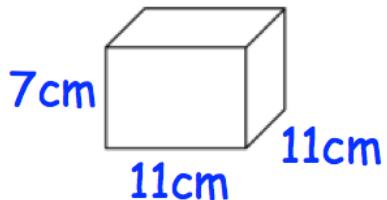
Find a shape that is mathematically similar to B

A jar of coffee used to contain 540g.

New packets contain one-fifth less.

Work out how much the new packet contains.

Work out the surface area of this cuboid



29th June**Fraction Percentage**

$$\frac{4}{5} \quad 75\%$$

$$\frac{3}{4} \quad 66\frac{2}{3}\%$$

$$\frac{2}{3} \quad 80\%$$

$$\frac{17}{20} \quad 85\%$$

Estimate the value of

$$\frac{908}{2.03}$$

Mary has 9 blue socks and 6 red socks.

If she selects one sock at random, what is the probability she selects a red sock?



The cost of a taxi journey is worked out by the rule.

£2 plus 50p per mile

Work out the cost of a 30 mile journey.

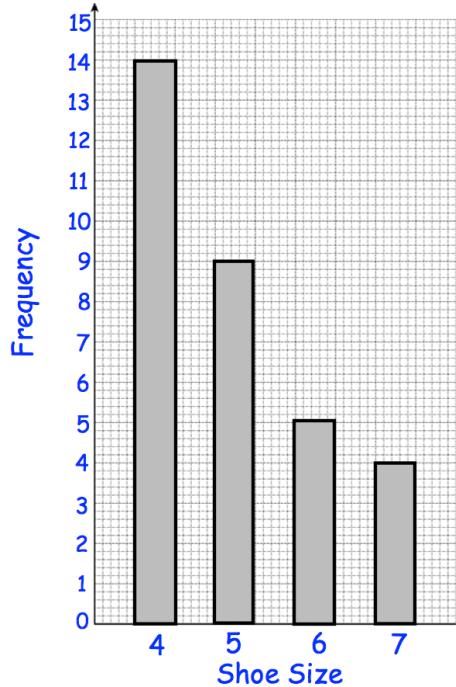
Find the area of the shape below

9cm

2cm

5cm

4cm

**30th June**

Shown are the shoe sizes Corbettmaths
for Year 7.

How many year 7s are there?

What is the range of the shoe sizes?

Work out

$$15 + 3 \times 2$$

Work out

$$20 \div 2 + 12 \div 4$$

Expand $2w(3w - 5)$

Arrange in order from smallest to largest

$$\frac{3}{10} \quad 29\% \quad 34.5\% \quad \frac{1}{3} \quad \frac{6}{25}$$