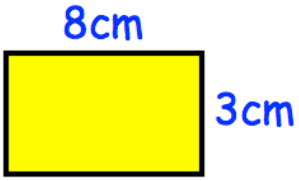
1st November **Foundation 5-a-day**

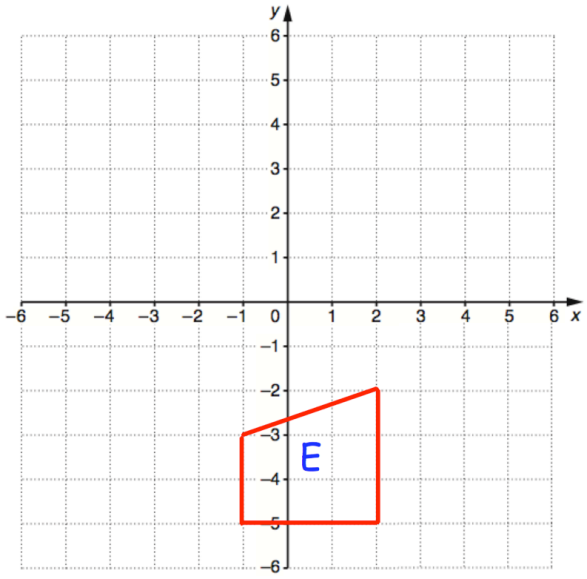
Corbettmaths



Find the area of the rectangle.

A rectangle has an area of 40cm² and perimeter 26cm.

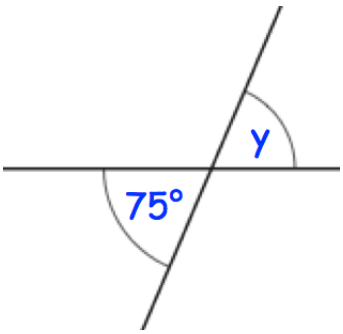
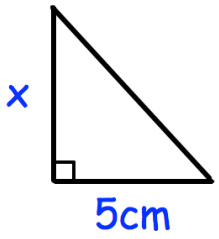
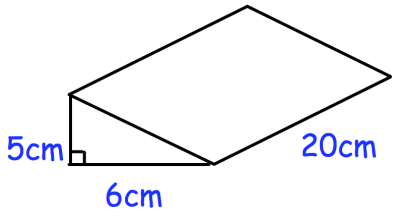
Find the length and width.



Rotate E 90° clockwise about the origin

Given $300 = 2^2 \times 3 \times 5^2$

Write 600 as a product of primes.

2nd November	Foundation 5-a-day
$-20 \div 4$	
Find y	
The area of this triangle is 30cm² 	Find x
James saves money every week. Week 1 he saves 1p Week 2 he saves 2p Week 3 he saves 4p Week 4 he saves 8p and so on.	How much money does he have saved in total up to and including week 8.
	Calculate the volume

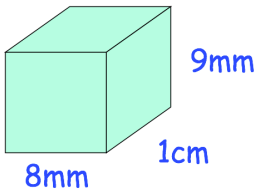
Corbettmaths

3rd November **Foundation 5-a-day**

Corbettmaths

A map has a scale of 1cm : 3 miles.
On the map, the distance between two towns is 17cm.

What is the actual distance between the two towns?
Include units for your answer.



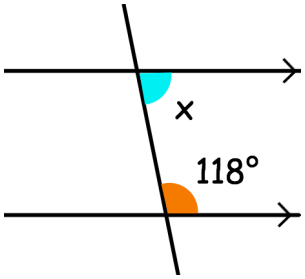
Work out the volume of the cuboid.

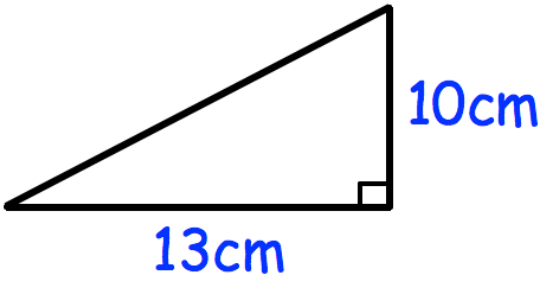
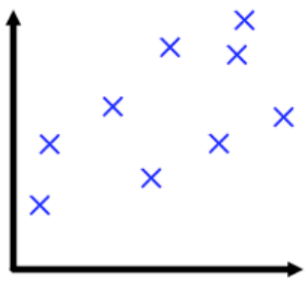
Work out 2^5

Teddy has a bag of counters.
The counters are red, green, white and pink.
There are 200 counters in the bag.
The probability of a pink counter is 0.15
The probability of a green counter is 0.25
The probability of a red counter is twice the probability of a white counter.

Calculate the number of red counters in the bag.

Work out the size of the angle marked x.
Give a reason for your answer.



4th November	**Foundation 5-a-day**
Rory and Luis think of two different numbers. The midpoint of the two numbers is 23. Rory says his number is 9. What number is Luis thinking of?	
Work out $4^2 + 2^3$	
	Work out the area of the right-angled triangle.
Write the following in order, from lightest to heaviest. 3kg 400g 0.5 tonnes 0.2kg	
	What type of correlation is shown?

5th November **Foundation 5-a-day**

Corbettmaths

Match each decimal and fraction.

Decimal	Fraction
0.325	$\frac{2}{5}$
0.4	$\frac{7}{20}$
0.3333...	$\frac{13}{40}$
0.35	$\frac{1}{3}$

Solve

$$\frac{x + 6}{8} = 4$$

	French	German
Male	14	
Female		8

Twice as many girls study German than boys.

There are 40 students altogether.

Find the missing numbers.

Sam and James win £500 in a competition. They share the money in the ratio 3:7.

Sam gives 35% of the money he wins to his brother, Harry.

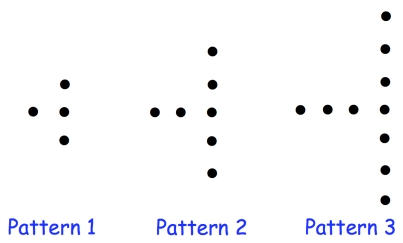
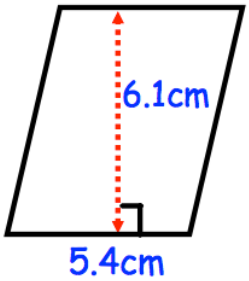
How much money does Harry receive?

Expand $2w(3w^2 - 5)$

Expand $y^2(8 - 2y)$

6th November **Foundation 5-a-day**

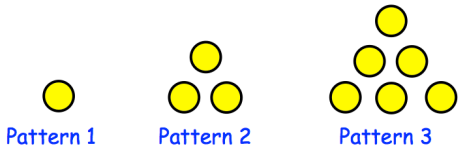
Corbettmaths

Work out the value of 0.2 x 0.8	
Patterns are made of dots  	Show Pattern 4.
Find an expression in terms of n, for how many dots there will be in Pattern n	Which pattern will have 2401 dots?
Work out the area of the parallelogram.	
Work out $13 \div 0.3^2$ Give your answer to two decimal places.	Give the answer to one significant figure.

7th November **Foundation 5-a-day**

Corbettmaths

The pattern below show the first 3 triangular numbers.

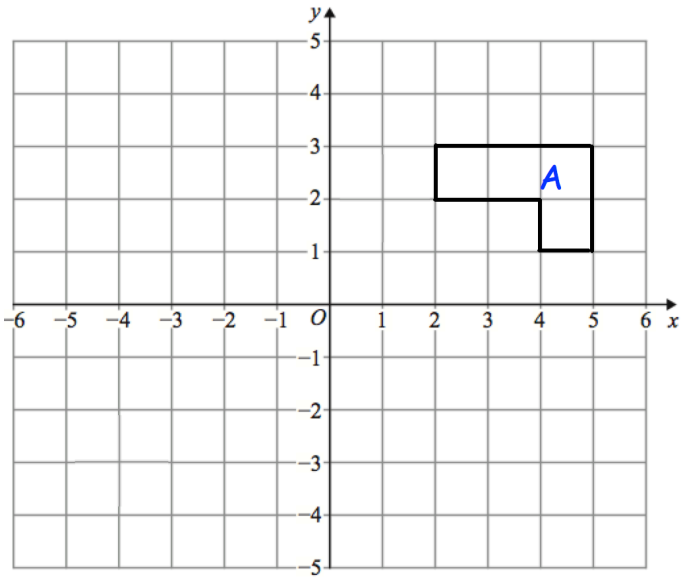


Write down the fourth triangular number.

Charlotte selects a cube from a bag containing 6 red, 2 green and 5 white cubes.

What is the probability she picks a white cube?

What is the probability she picks a red or white cube?



Rotate shape A 90° anti-clockwise about the origin

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

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

8th November **Foundation 5-a-day**

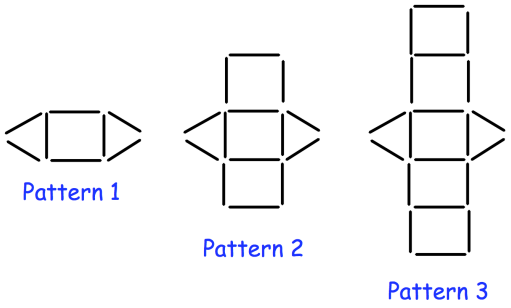
Corbettmaths

Fill in the missing digits to show a possible answer.

□□ × 4 = 5□

These patterns are made of sticks

How many sticks will there be in Pattern 8?

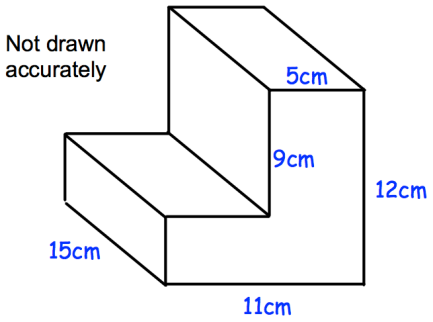


$\frac{4}{9} + \frac{2}{5}$

$\frac{4}{9} \times \frac{2}{5}$

List the first five cube numbers.

Work out the volume of the prism.



9th November **Foundation 5-a-day**

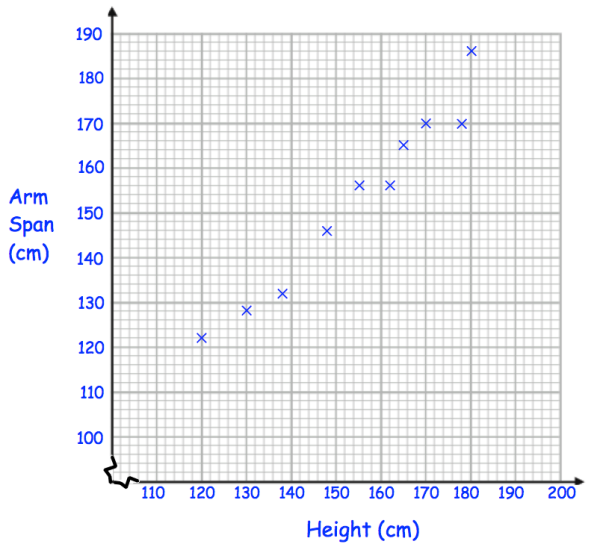
Corbettmaths

6 4 2 9 11 11

(a) What is the median?

(b) What is the mode?

(c) What is the range?



Describe the relationship shown.

Another student has a height of 150cm.

Estimate the arm span of this student.

Simplify 6x + 2y – 3x + 7y



What is the bearing of B from A?

10th November **Foundation 5-a-day**

Corbettmaths

	Wins	Draws	Losses
Sunderland City	1	5	3
Manchester Rovers	2	1	6
Liverpool United	3	0	6
London Town	0	9	0

Win = 5 points Draw = 2 point
Loss = –1 points

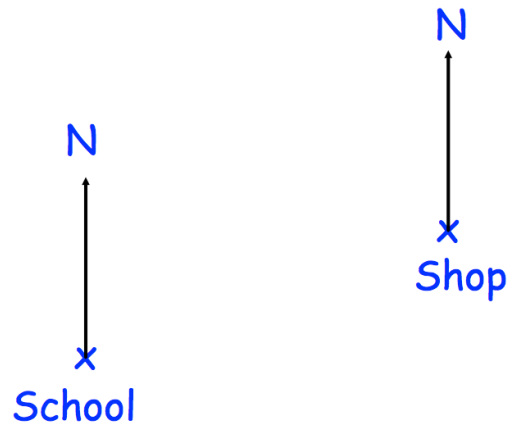
Which team have the greatest number of points?

How many points do they have?

There are two bags of sweets, bag 1 and bag 2.
In total there are 40 sweets in the bags.

12 sweets are moved from bag 1 to bag 2. There is now an equal number of sweets in each bag.

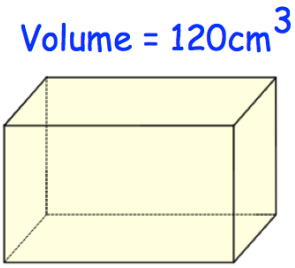
How many sweets were in bag 2 at the start?



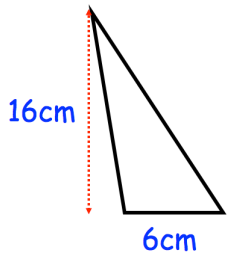
The scale of the map is 1cm = 100 metres.

Work out the real distance between the school and the shop.
Give your answer in metres.

What is the bearing of the shop from the school?



This cuboid has a volume of 120cm³
Work out a possible value for its surface area.

11th November	**Foundation 5-a-day**
If 150 x 34 = 5100 Use that information to work out: 15 x 34	300 x 34 1.5 x 3.4
Each unit of gas costs 15p How much was spent on gas between January and June?	meter reading Jan 6813 June 7191
Simplify a x a x a x a x a	Simplify 6a + 4a – a
	Find the area of the triangle.
Work out $\frac{13.2 + 8.9}{2.3^2}$ Write your answer to 2 significant figures.	

Corbettmaths

12th November **Foundation 5-a-day**

Corbettmaths

Simplify

a + a + a

Simplify

a x a x a

385 students are going on a school trip.
At least one teacher must go with every 14 students.

Work out the smallest number of teacher who must go.

Darius works out the mean of three numbers.

The mean is 6.
None of the numbers are 6.

Write down three numbers with a mean of 6.

The stem and leaf diagram below shows the ages of people in a group.

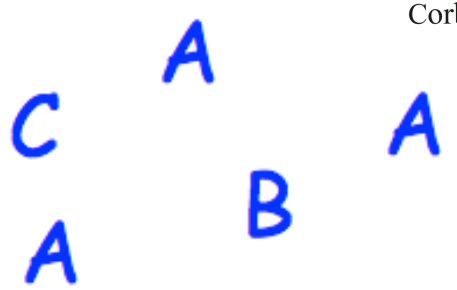
Key: 1 | 4 means 14 years old

1	4 5 8
2	1 3 6 9 9
3	0 5 7
4	4

How many people are over 25?

Work out the range of the ages.

13th November	Foundation 5-a-day
Work out $72 \div 0.3$	
A pack of 3 peppers cost £3.40 A pack of 4 peppers cost £4.08 Which pack is better value for money?	
Write an expression for the perimeter of the rectangle.	4x + 3y  x + y
Henry and Arthur share £65 in the ratio 4 : 9 How much money does Arthur receive?	
Solve $9(y + 3) = 45$	

14th November	**Foundation 5-a-day**
What is the probability of selecting an A or B?	
Write down the cube root of 125	
If x = 2 Work out 5x	If y = 6 Work out 2y + 3
Ethan drives for 2 hours 45 minutes at an average speed of 36 mph. How far does Ethan drive?	
Mrs Jenkins is organising a charity raffle. She sells 800 tickets for £5 each. The probability that someone wins a prize is 0.1 Each prize cost £15 The profit is donated to charity.	Work out how much money Mrs Jenkins donates to charity.

15th November **Foundation 5-a-day**

Corbettmaths

Solve $2y + 17 = 5$

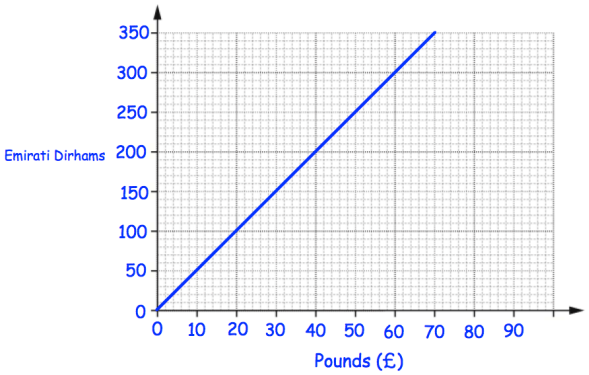
$E = 2a + c$

Find E if a = 7 and c = 8

Find E if a = 5.5 and c = 4.5

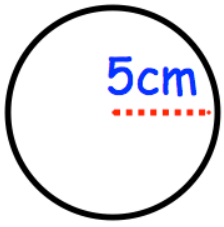
Draw a rhombus on the isometric dots.





Convert 100 Dirhams into Pounds

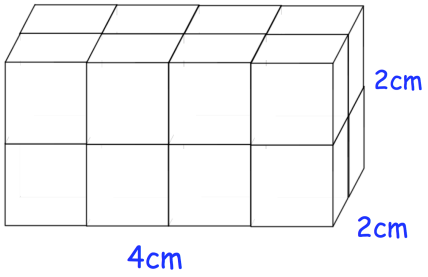
Convert £800 into Dirhams

16th November	Foundation 5-a-day
Work out 5^3	
A telephone call is 30p for 5 minutes. How much will 8 minutes cost?	
Arlo is 1.53m tall. Hannah is 4cm shorter than Arlo. What is Hannah's height?	
Narinder is paid £1400 a month. Every month she saves 30%. How many months will it take Narinder to save £3000?	
Calculate the circumference	

Corbettmaths

17th November **Foundation 5-a-day**

Corbettmaths



Find the surface area of this cuboid.

Circle all the cube numbers.

20 64 1
343 300 726
150 81

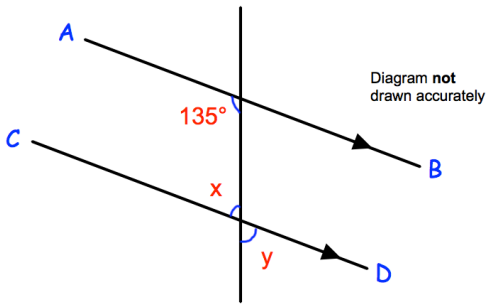
Solve y + 9 = 13

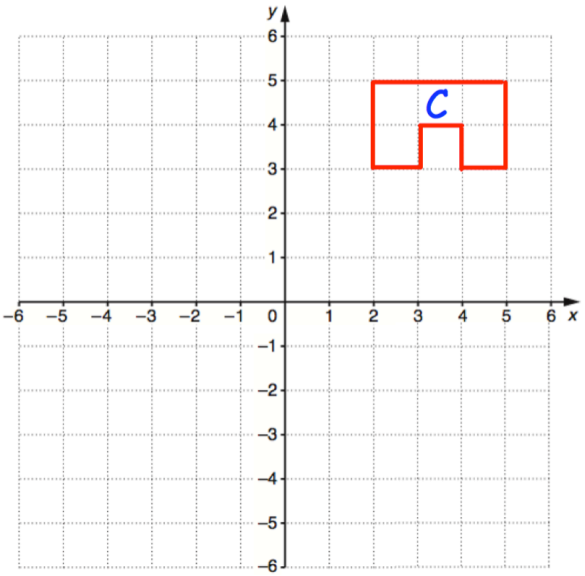
Solve 5x = 35

Expand 4(y + 2)

Expand 5(w – 2)

Work out the size of the angle marked x.
Give a reason for your answer.



18th November	**Foundation 5-a-day**
Work out 3^4	
A car park costs £0.05 per minute. Amelia parked in the car park at 2pm. When she left she had to pay £3.70 What time did Amelia leave the car park?	
Draw the line y = 1	
Reflect shape C in the line y = 1	
Solve $4(x-7)=48$	

19th November **Foundation 5-a-day**

Corbettmaths

A map has a scale of 1cm : 4 kilometres.
The actual distance between two cities is 56 kilometres.

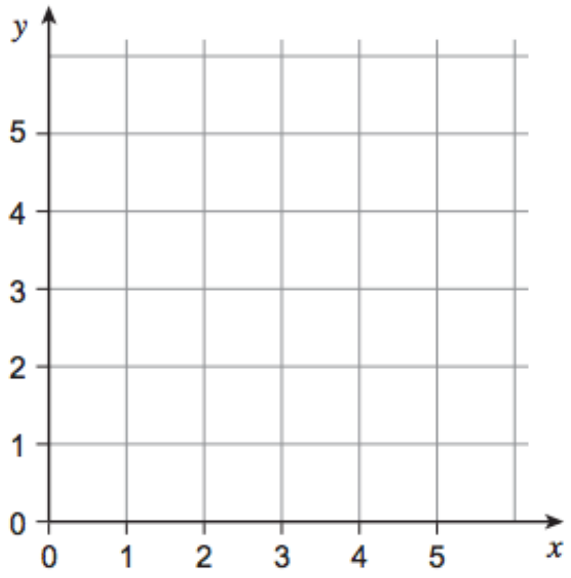
What is the distance between the cities on the map?

Here are the first four terms of a sequence

3 9 15 21

What is the fifth term of the sequence?

What is the tenth term of the sequence?



Draw x = 4

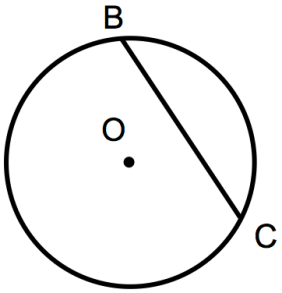
Draw y = 2x

Kate buys 0.5kg of bananas and 0.8kg of carrots.

The carrots cost £1.20 per kilogram

The total cost is £1.81

Work out the cost of 1 kg of bananas

20th November	**Foundation 5-a-day**
	What is the name of the line BC?
In a theatre there are 38 rows of seats. Each row has 14 seats. How many seats are there in total?	
The price of a ticket is £12 During a show, the total cost of the tickets sold was £5436 How many tickets were not sold?	
Circle the correct word to describe $6y + z$	Equation Expression Identity
Simplify fully $4a - 5c + a - 2c$	Expand and simplify $5(x + 5) - 4(x - 2)$

21st November **Foundation 5-a-day**

Corbettmaths

Calculate $\sqrt{71.2336}$

Write down the next term in this sequence.

2 6 18 54 .....

Write down the next term in this sequence.

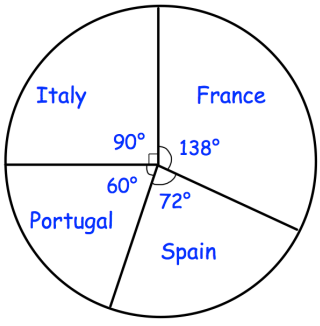
a 2a + 1 3a + 2 4a + 3 .....

Here are four number cards.
The mode is 11.
The median is 9.
The range is 8.

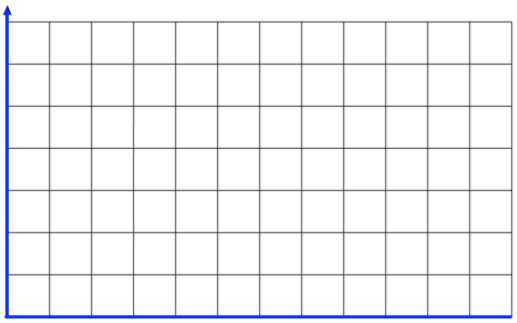
Find the mean.



The pie chart shows the holiday destinations of 60 people.

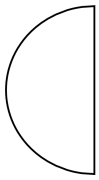


Draw a bar chart to represent this information.

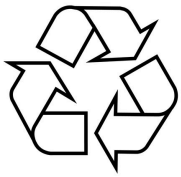


22nd November **Foundation 5-a-day**

Corbettmaths



State the order of rotational symmetry



State the order of rotational symmetry

Lily has a spinner that has sections labelled 1 to 5.
She spins the spinner 10 times.

Here are her scores.

1	4	4	2	3
4	5	1	4	1

Work out the median

Complete the table

Shape	Angles add up to
Triangle	180°
Quadrilateral	360°
Pentagon	
Hexagon	

Write 70 as a product of primes

Adam wins £500 in a competition.

He gives 20% of the money to his aunt.
He gives 7% of the money to his brother.

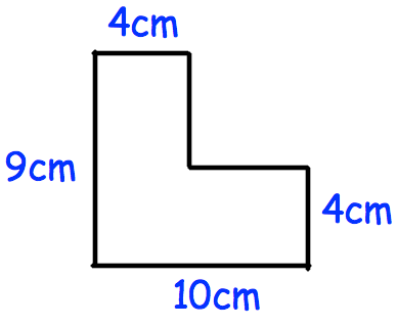
How much money does Adam have left?

23rd November **Foundation 5-a-day**

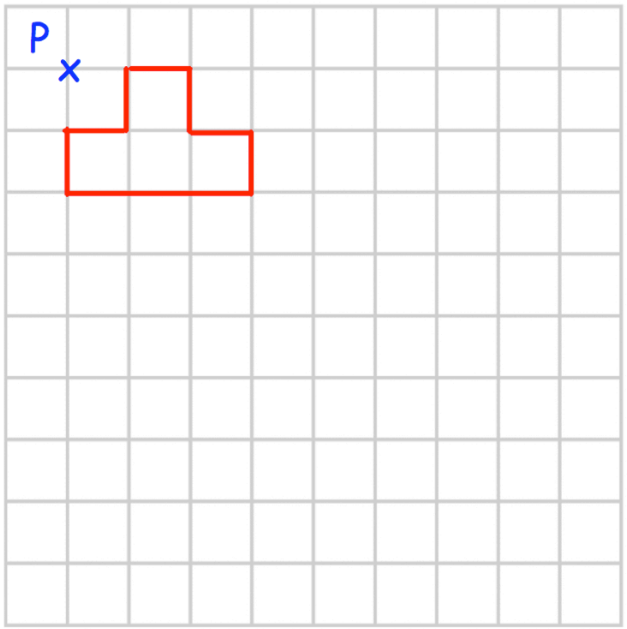
Corbettmaths

Oranges cost x pence each.
Apples cost y pence each.

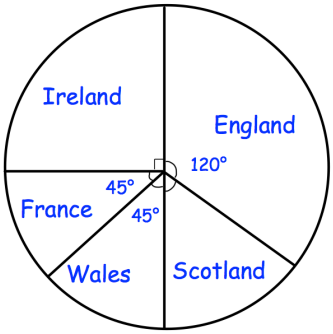
Write an expression for the total cost of an orange and 2 apples.



Calculate the perimeter



Enlarge the shape with scale factor 3 using P as the centre of enlargement.



2400 fans were asked which team they support.

How many support Scotland?

24th November **Foundation 5-a-day**

Corbettmaths

Write 0.08 as a fraction in its simplest form

Write 14% as a fraction in its simplest form

Work out 2^4

One angle in an isosceles triangle is 50°.

Write down the sizes of the other two angles.

Write two different possible answers.

The two-way table gives some information about the football teams 50 students support.

Complete the two-way table.

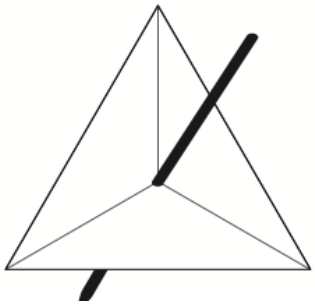
	Rovers	City	United	Total
female	11	12	3	
male			7	
Total		20		50

Y pounds is shared equally among n children.

Write down a formula for the amount, A, that each child should receive

25th November **Foundation 5-a-day**

Corbettmaths



This spinner has three sections.
It is certain to land on an **even** number.

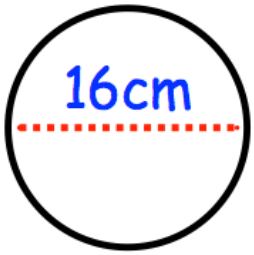
Label the spinner.

Write $5\frac{3}{4}$ as a top heavy fraction

3kg of strawberries cost £8.25

Work out the cost of 5kg of strawberries.

Calculate the area



Rearrange $x = y + 5$ to make y the subject.

26th November **Foundation 5-a-day**

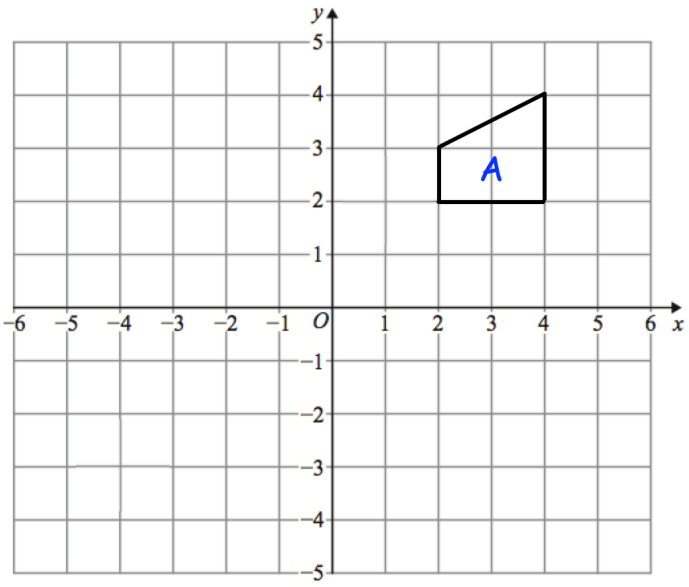
Corbettmaths

Increase 80 by 20%

Increase 140 by 150%

Simplify

$5x^4 \times 3x^5$



Rotate shape A 180° about the origin

The front elevation of a solid shape is a triangle.
The side elevation of the solid shape is a triangle.
The plan view of the solid shape is a square.

Write down the name of the shape.

27th November **Foundation 5-a-day**

Corbettmaths

Work out 0.7 x 0.6

Work out 6^3

There are pink, yellow, green and blue beads in a bag.

The table shows the probability of picking each colour at random.

Find the missing probability

Colour	Pink	Yellow	Green	Blue
Probability	0.5		0.1	0.2

$c = 8$
$d = 3$

Work out the value of $2c - 7d$

Each week Mrs Jones earns 20p commission on each ticket she sells for the first 100 tickets and 30p per ticket for any extra tickets she sells.

Last week she sold 130 tickets

How much did she earn?

Find the number halfway between

$\frac{2}{5}$ and $\frac{9}{10}$

28th November **Foundation 5-a-day**

Corbettmaths

Work out $\sqrt[3]{1000}$

Write down the ratio of 50g to 1kg.
Give your answer in its simplest form.

Write the correct symbol in each box
to make the statements correct

$>$ $=$ $<$

$75 \times 12 \square 30 \times 40$

$4^3 \square 50 + 6 \times 2$

$4 \times 3 \times 2 \times 1 \times 0 \square 4{,}444 \div 4{,}444$

$2 - 3 \square 20 - 30$

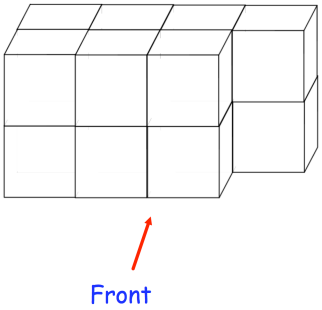
There are 50 sweets in a jar.
15 of the sweets are yellow and the rest are red.

A sweet is picked at random.

Find the probability that the sweet is red.

29th November **Foundation 5-a-day**

Corbettmaths



Draw the front elevation

Draw the side elevation

Draw the plan view

$\frac{1}{4}$ kg of blueberries cost £1.24

Work out the cost of 2kg of blueberries

There are only red sweets and green sweets in a jar.
The ratio of red sweets to green sweets is 2:5

What fraction of the sweets are red?

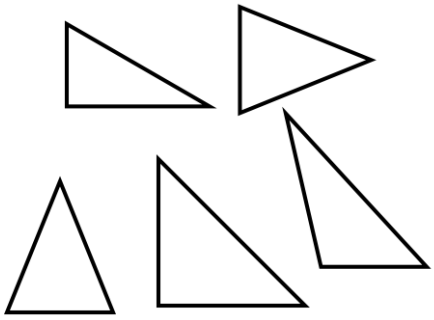
Natalie, Olivia and Hugo share 240 sweets in the ratio 3:5:4

How many more sweets does Olivia have than Hugo?

30th November **Foundation 5-a-day**

Corbettmaths

Write $\frac{90}{11}$ as a mixed number



Tick the triangles that are congruent.

Kylo and Nathanael sit a test worth 70 marks.

Kylo gets 33 marks in the test.
Nathanael gets 40%.

Work out the difference between their marks.

Make	Frequency
Ford	8
Mazda	14
Volkswagen	21
Fiat	20
Honda	9

Calculate the size of each angle and then draw an accurate pie chart.

