

Name: \_\_\_\_\_

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# HEROES TUITION

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October Homework  
Maths  
Foundation

**Please return this booklet to you Maths teacher by the end of the month. All answers will be sent to your parents or guardians, so please ensure it is marked before handing it in.**



## Heroes Tuition Centre - Homework

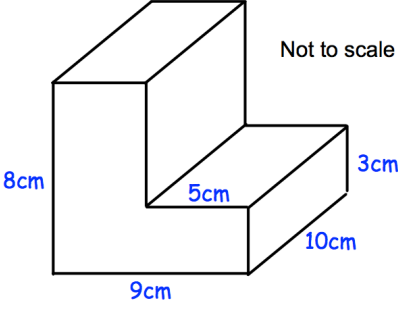
Name: \_\_\_\_\_  
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5-a-day

Foundation  
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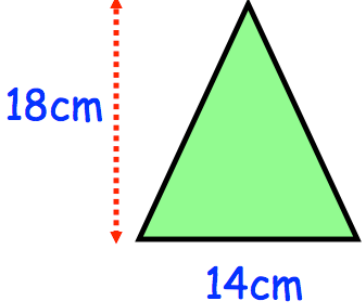
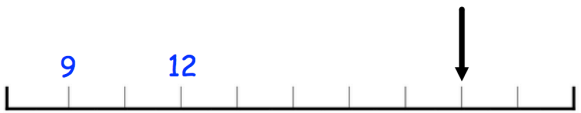
# Heroes Tuition Centre - Homework

Name: \_\_\_\_\_

1st October	Foundation
<p>Simplify</p> $4a + 2a - a$	<p>Simplify</p> $3w + 8y - 2w + 2y$
<p>A football shirt normally costs £40.</p> <p>A shop offers a 30% discount.</p> <p>What is the new price of the football shirt?</p>	
<p>Helen is paid £10 per hour.</p> <p>She works <math>2\frac{1}{2}</math> hours each day.</p> <p>In one week she worked 5 days.</p> <p>How much did Helen earn in that week?</p>	
<p>Work out the volume of the prism.</p>	 <p>Not to scale</p> <p>8cm</p> <p>5cm</p> <p>3cm</p> <p>10cm</p> <p>9cm</p>
<p>Rearrange <math>y = 4x + 1</math> to make <math>x</math> the subject</p>	

# Heroes Tuition Centre - Homework

Name: \_\_\_\_\_

2nd October	Foundation		
	Write down the order of rotational symmetry of the shape shown		
Calculate the area of the triangle			
$\frac{3}{5} - \frac{2}{7}$	$\frac{3}{4} + \frac{2}{9}$		
Mr. Jones needs a plumber. The job should take 4 hours.  Which company should he hire?	<table border="1"><tr><td data-bbox="805 1344 1125 1534"><b>Plumbers'R'us</b> £50 call out charge + £30 per hour</td><td data-bbox="1141 1344 1396 1534"><b>Plumb 4 u</b> £40 per hour</td></tr></table>	<b>Plumbers'R'us</b> £50 call out charge + £30 per hour	<b>Plumb 4 u</b> £40 per hour
<b>Plumbers'R'us</b> £50 call out charge + £30 per hour	<b>Plumb 4 u</b> £40 per hour		
Shown is a number line.  What number is the arrow pointing to?			

# Heroes Tuition Centre - Homework

Name: \_\_\_\_\_

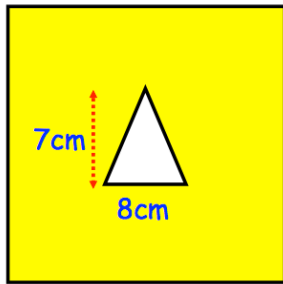
3rd October

Foundation



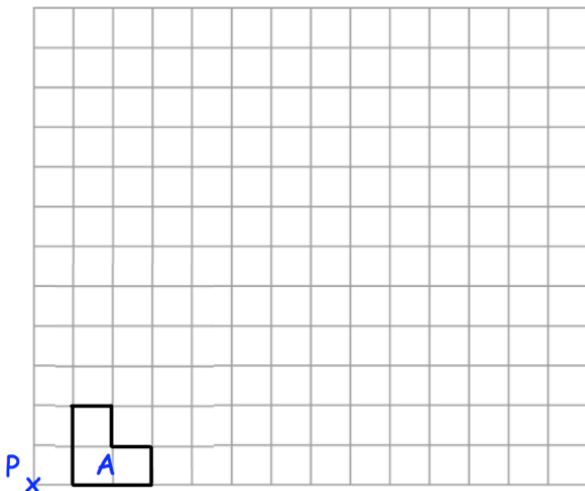
The small bottle holds 250ml.  
The large bottle holds 2L.

How many times larger is the large bottle?

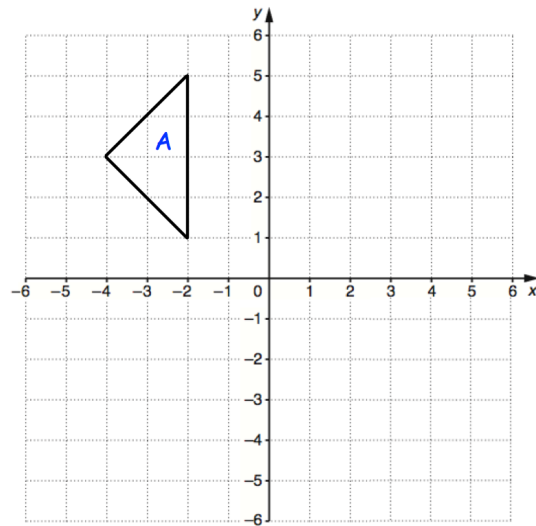


The perimeter of the square is 60cm.

Find the shaded area.



Enlarge shape A by scale factor 4



Translate triangle A by  $\begin{pmatrix} 5 \\ -6 \end{pmatrix}$ .

Write 60 as a product of primes

# Heroes Tuition Centre - Homework

Name: \_\_\_\_\_

4th October

Foundation

Small pack: 4 batteries for £1.80  
Large pack: 6 batteries for £2.76

Which is better value for money?

Below is part of a customer's electricity bill.

Previous reading      29381  
Present reading      30122

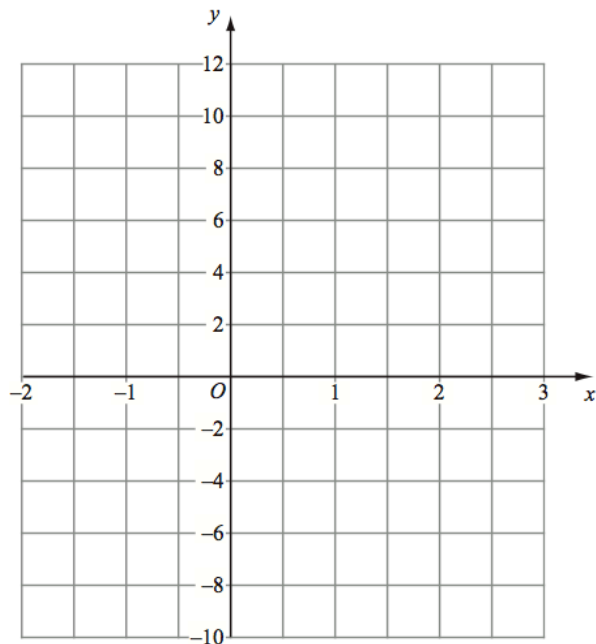
Each unit costs 20p

Work out the total cost

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.



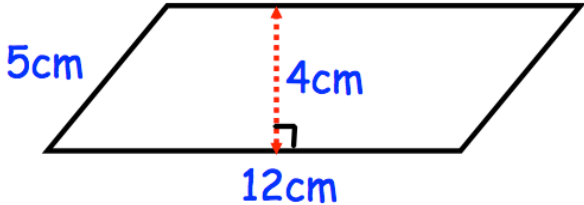
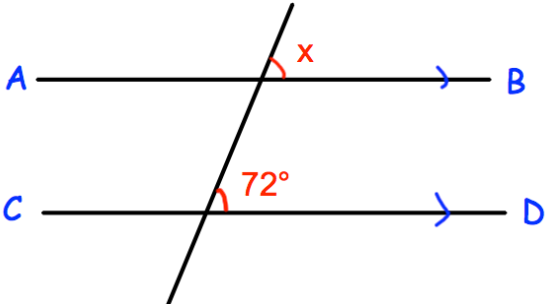
Find the nth term of

18, 23, 28, 33, 38 ... ..

Find the 100th term


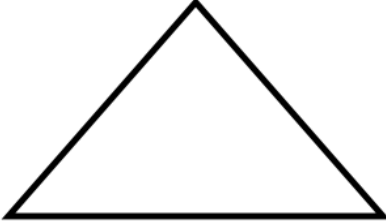
# Heroes Tuition Centre - Homework

Name: \_\_\_\_\_

5th October	Foundation
<p>Write 93.155 to the nearest whole number.</p>	<p>Write 93.155 to one decimal place.</p>
<p>Using your calculator, work out</p> $\frac{1}{0.2^2}$	
 <p>A parallelogram with a base of 12cm and a height of 4cm. The left slanted side is labeled 5cm. A dashed red vertical line from the top side to the base indicates the height, with a right-angle symbol at the base.</p>	<p>Calculate the area of this parallelogram.</p>
<p>Solve</p> $5x - 4 = 26$	<p>Solve</p> $\frac{x - 1}{3} = 4$
<p>Work out the size of the angle marked x. Give a reason for your answer.</p>	 <p>Two parallel horizontal lines, AB and CD, intersected by a transversal line. At the intersection with line AB, the top-right angle is marked x. At the intersection with line CD, the bottom-right angle is marked 72°.</p>

# Heroes Tuition Centre - Homework

Name: \_\_\_\_\_

<b>6th October</b>	Foundation
<p><math>-7^{\circ}\text{C}</math>   <math>-4^{\circ}\text{C}</math>   <math>2^{\circ}\text{C}</math>   <math>12^{\circ}\text{C}</math>   <math>-3^{\circ}\text{C}</math></p> <p>What is the difference between the coldest and warmest temperature?</p>	
<p>The shape below <b>are drawn accurately</b></p> <div style="display: flex; justify-content: space-around; align-items: center;"></div>	
<p>Does the rectangle or the triangle have the largest perimeter?</p>	<p>Does the rectangle or the triangle have the largest area?</p>
<p>Don says</p> <p>“the difference between two consecutive cube numbers is always odd.”</p> <p>Is Don correct? You must show your workings.</p>	
<p>Simplify</p> $y^8 \times y^{-2}$	<p>Simplify</p> $2ay \times 4a$

# Heroes Tuition Centre - Homework

Name: \_\_\_\_\_

7th October

Foundation

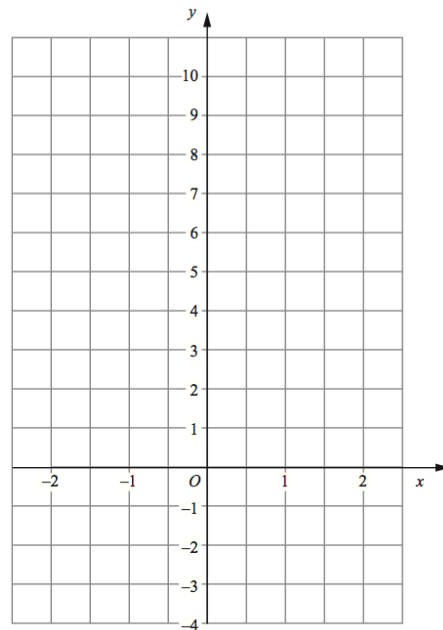
Decrease 18000 by 7%



Holly works out the answer to  $135.66 + 193.88$  on a calculator. Round her answer to one decimal place.

Complete the table of values for  $y = 2x + 1$

x	-1	0	1	2
y				



Draw the graph of  $y = 2x + 1$ .

Factorise

$$y^2 - 6y$$



# Heroes Tuition Centre - Homework

Name: \_\_\_\_\_

8th October

Foundation

Write 17% as a decimal

Write 0.1 as a fraction

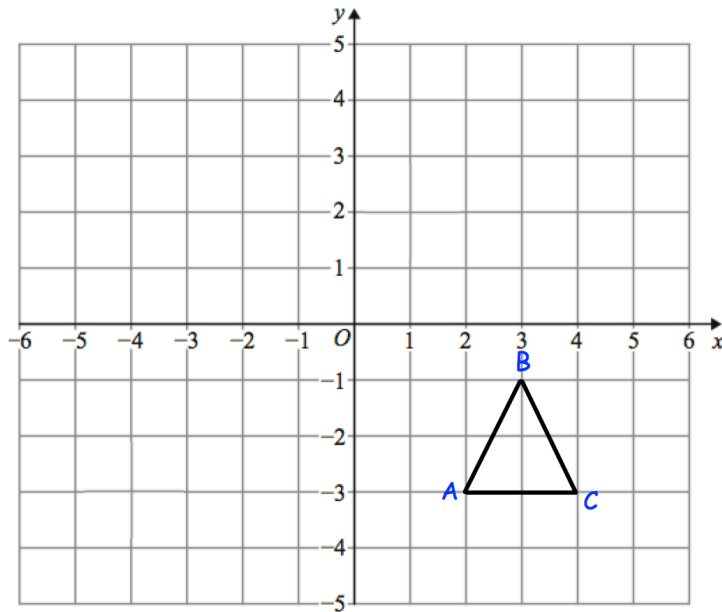


In 5 games, a footballer scores:

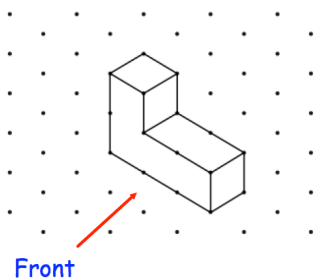
1 2 1 3 0

What is the median?

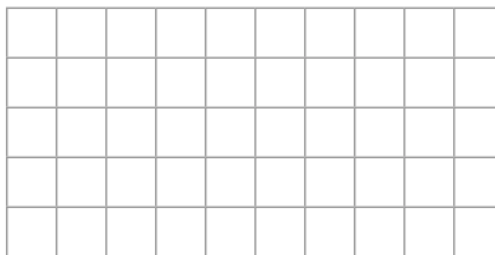
What is the range?



Rotate triangle ABC  $180^\circ$  about the origin




Draw the plan view



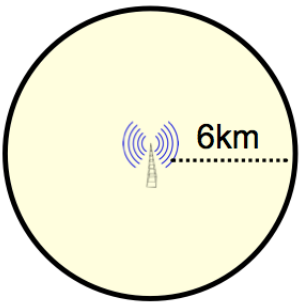
# Heroes Tuition Centre - Homework

Name: \_\_\_\_\_

9th October	Foundation
<p>Apples cost £1.00 per kg Oranges cost 24p each Tomatoes cost £2.40 per kg</p> <p>Dara buys: 0.5 kg of apples 2 oranges 2 kg of tomatoes</p>	<p>Work out the total cost</p>
<p><math>p = 5</math> <math>a = 6</math></p> <p>Work out the value of <math>3a + 8p</math></p>	
<p>Solve <math>3w = 18</math></p>	<p>Solve <math>4w + 2 = 38</math></p>
	<p>This wheel has a radius of 21cm. Calculate the circumference.</p>
<p><u><math>183 + 892</math></u> <math>10.4 \times 8.75</math></p> <p>Write down your full calculator display.</p>	<p>Write your answer to 3 significant figures.</p>

# Heroes Tuition Centre - Homework

Name: \_\_\_\_\_

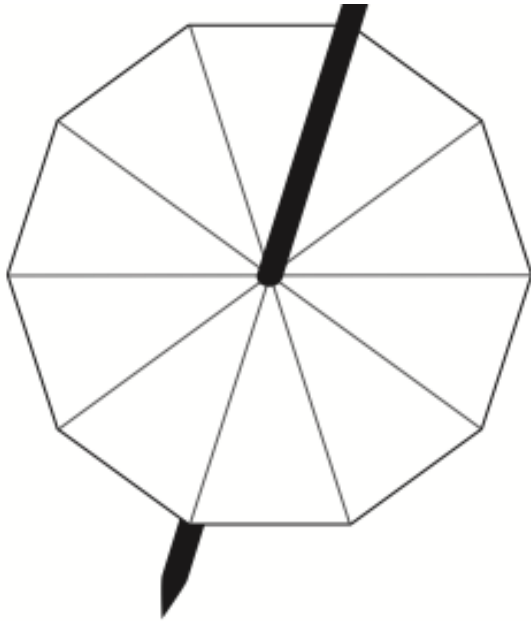
10th October	Foundation
<p>Given</p> $37 \times 102 = 3774$ <p>Work out <math>37 \times 103</math></p>	
<p>Expand <math>8(a + c)</math></p>	<p>Expand <math>x(x + 4)</math></p>
<p>Calculate the nth term</p> <p>3 7 11 15 ... ..</p>	<p>Is 801 a term in the sequence?</p>
<p>Use your calculator to work out the value of</p> $\frac{2.12 \times 5.2}{9.21 - 2.8}$ <p>Write down all the figures on your calculator display.</p>	
<p>Calculate the area of the circle</p>	

# Heroes Tuition Centre - Homework

Name: \_\_\_\_\_

11th October

Foundation



This spinner has 10 equal sections.

Label the spinner so that:

- It has an even chance of landing on an odd number.
- An 8 is more likely than a 4.
- An 8 and a 7 are equally likely.
- It is impossible to get a number above 8.

Alison changes £16 into American dollars.

The exchange rate is £1 to \$1.40

How many American dollars does Alison receive?

A scale drawing has a scale of 1:20  
In real life the length of a boat is 150m

What is the length of the boat on the scale drawing?

Give your answer in centimetres.

Write 72 as a product of primes

# Heroes Tuition Centre - Homework

Name: \_\_\_\_\_

12th October

Foundation

Foxtown			
52	Sandcliff		
70	32	Red Island	
31	14	28	Donhampton

Write down the distance from Sandcliff to Donhampton.

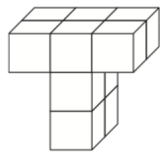
Which two towns are the furthest apart?

Martin visits his friend and returns home. He has travelled 64 miles in total.

Where do they live?

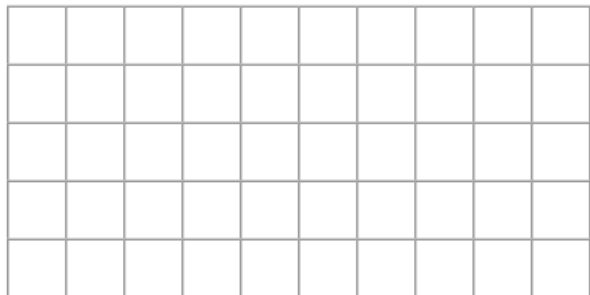
$$\frac{3}{4} + \frac{1}{12}$$

$$\frac{5}{14} \times \frac{3}{4}$$



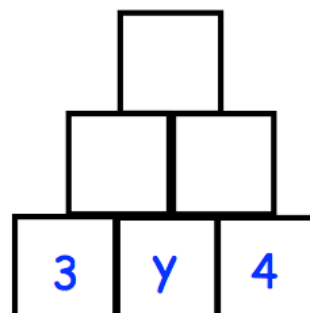
Front

Draw the plan view




To find the contents of each empty box, multiply the two terms directly beneath it.

Complete the multiplication pyramid.



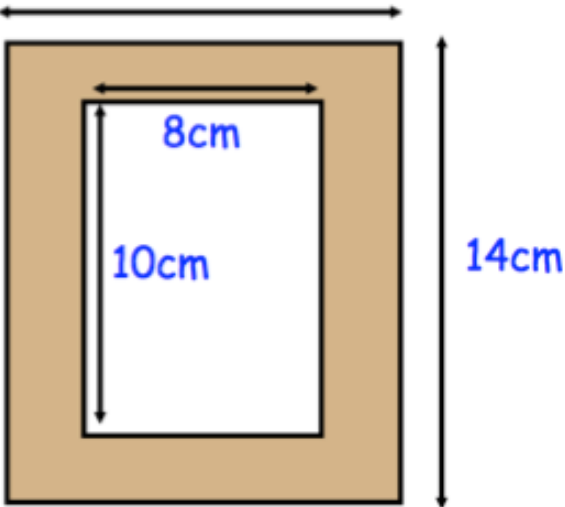
# Heroes Tuition Centre - Homework

Name: \_\_\_\_\_

13th October	Foundation
<p>Jim sends 14 text messages daily that cost 5p each. He makes 3 calls each day costing 25p each.</p> <p>How much does he spend altogether over five days?</p>	
<p>What is the smallest number that is exactly divisible by 3 and 11?</p>	<p>What is the smallest number divisible by both 6 and 9?</p>
<p>Matt's age and Clark's age add up to 64. Matt is 36 years older than Clark.</p> <p>How old is Clark?</p>	
<p><math>W = 3a + 2c</math></p> <p>Find W if <math>a = 7</math> and <math>c = 8</math></p>	<p>Find W if <math>a = 3.5</math> and <math>c = 2.2</math></p>
	<p>What is the bearing of A from B?</p>

# Heroes Tuition Centre - Homework

Name: \_\_\_\_\_

14th October	Foundation
<p>Work out the mean.</p> <p>6    0    3    2    2    5</p>	<p>Work out the median</p>
<p>4<sup>3</sup></p>	
 <p>12cm</p> <p>14cm</p> <p>8cm</p> <p>10cm</p>	<p>Work out the shaded area.</p>
<p>Factorise <math>3x + 9</math></p>	<p>Factorise <math>y^2 + 5y</math></p>

# Heroes Tuition Centre - Homework

Name: \_\_\_\_\_

15th October	Foundation																
A square has a perimeter of 28cm. What is the area of the square?																	
Martin thinks of a number.  He doubles it. He adds 11.  His answer 25.	What was his number?																
A cinema records some information about the visitors they have one weekend.  Fill in all the missing values	<table border="1"><thead><tr><th>Day</th><th>Males</th><th>Females</th><th>Total</th></tr></thead><tbody><tr><td>Saturday</td><td></td><td>115</td><td>212</td></tr><tr><td>Sunday</td><td></td><td></td><td></td></tr><tr><td>Total</td><td>143</td><td></td><td>360</td></tr></tbody></table>	Day	Males	Females	Total	Saturday		115	212	Sunday				Total	143		360
Day	Males	Females	Total														
Saturday		115	212														
Sunday																	
Total	143		360														
Solve $\frac{x + 3}{4} = 8$																	
Rearrange $y = 2x + 1$ to make x the subject																	



# Heroes Tuition Centre - Homework

Name: \_\_\_\_\_

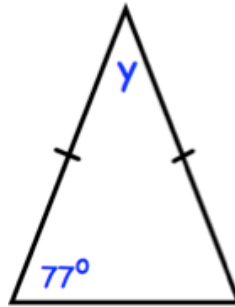
16th October

Foundation

$$-7 \times -2$$

$$-18 \times 2$$

Find y



Serves 4

Chopped tomatoes 420g  
Garlic 1 clove  
Minced beef 360g

...  
...

Serves 10

Chopped tomatoes \_\_\_\_\_  
Garlic \_\_\_\_\_  
Minced beef \_\_\_\_\_

...  
...

The names of three quadrilaterals are below.

square      kite      parallelogram

Write each name in the correct position in the table below.

	Line Symmetry	No Line Symmetry
Two pairs of parallel lines		
No parallel lines		

Factorise

$$y^2 + 6y$$

# Heroes Tuition Centre - Homework

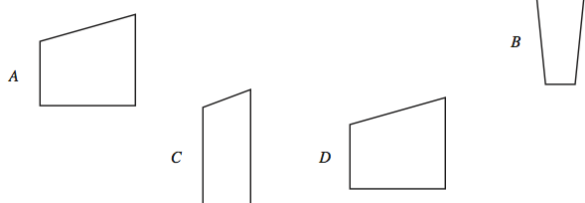
Name: \_\_\_\_\_

17th October

Foundation

$$\square + \square 2 = \square -1$$

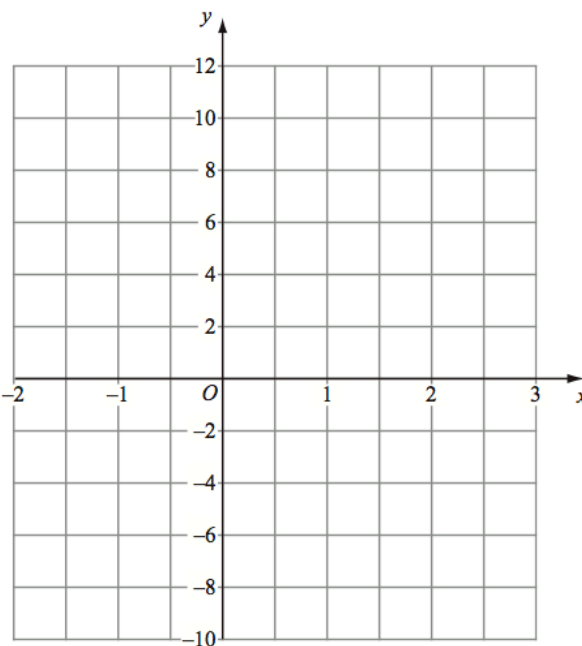
$$-6 \times \square = 36$$



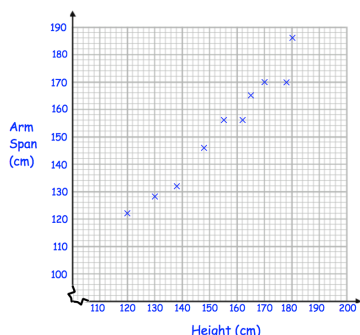
Which shapes are congruent?

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

$x$	-1	0	1	2	3
$y$			2		-6



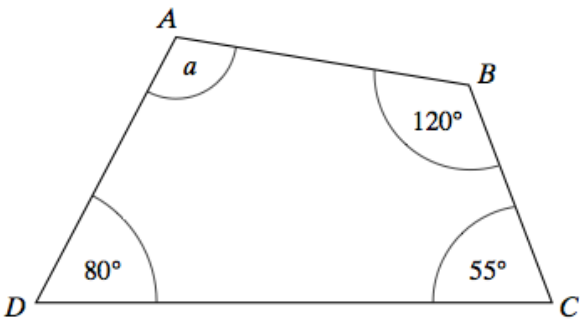
On the grid, draw the graph of  $y = 6 - 4x$  for values of  $x$  from  $-1$  to  $3$ .



What type of correlation does this scatter graph show?

# Heroes Tuition Centre - Homework

Name: \_\_\_\_\_

18th October	Foundation										
 <p>A quadrilateral with vertices labeled A, B, C, and D. The interior angles are: <math>\angle D = 80^\circ</math>, <math>\angle C = 55^\circ</math>, <math>\angle B = 120^\circ</math>, and <math>\angle A = a</math>.</p>	<p>Find a</p>										
<p>Three coffees cost £3.60.</p> <p>What is the cost of twenty coffees?</p>											
<p>David has a spinner that has sections labelled 1 to 5.</p> <p>He spins the spinner 10 times.</p> <p>Here are his scores.</p> <table border="0" data-bbox="167 1164 574 1243"> <tr> <td>1</td> <td>4</td> <td>4</td> <td>2</td> <td>3</td> </tr> <tr> <td>4</td> <td>5</td> <td>1</td> <td>4</td> <td>1</td> </tr> </table>	1	4	4	2	3	4	5	1	4	1	<p>Work out the range.</p> <p>Find the mode.</p>
1	4	4	2	3							
4	5	1	4	1							
<p>A rugby team can win, draw or lose a match.</p> <p>The table shows the probabilities of each result.</p> <p>Calculate the missing probability in the table.</p>	<table border="1" data-bbox="805 1321 1396 1478"> <tr> <td>Result</td> <td>Win</td> <td>Draw</td> <td>Lose</td> </tr> <tr> <td>Probability</td> <td>0.4</td> <td>0.35</td> <td></td> </tr> </table>	Result	Win	Draw	Lose	Probability	0.4	0.35			
Result	Win	Draw	Lose								
Probability	0.4	0.35									
<p>The rugby team play 20 games.</p> <p>Each win is worth 2 points.</p> <p>Each draw is worth 1 point.</p> <p>Each loss is worth 0 points.</p>	<p>Work out how many points the rugby team should receive in one season.</p>										

# Heroes Tuition Centre - Homework

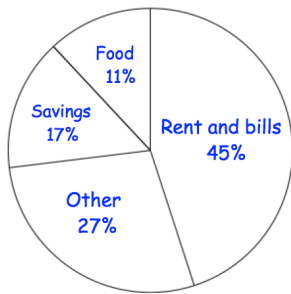
Name: \_\_\_\_\_

19th October

Foundation

w	w	w	w	28
w	w	x	x	34
w	w	x	y	26
w	x	y	z	40

Find w, x, y and z



The pie chart shows information about how Mr. Jenkins spent his salary for July. He was paid £2000 in July. Work out how much Mr. Jenkins spent on rent and bills.

James is buying a table. He finds the same table for sale in two different shops.

When buying the table, the rate of VAT was 17.5%

<b>Table World</b>	<b>Tables' R'us</b>
<b>£140</b>	<b>£120</b>
Prices include VAT	Prices do not include VAT

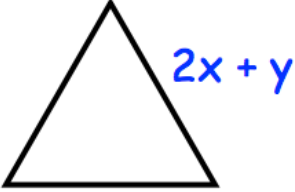

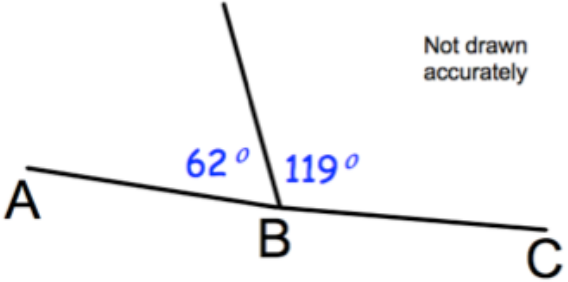
Which shop is better value?

The angles in a triangle are in the ratio 1 : 2 : 9

What is the size of the largest angle?

# Heroes Tuition Centre - Homework

Name: \_\_\_\_\_

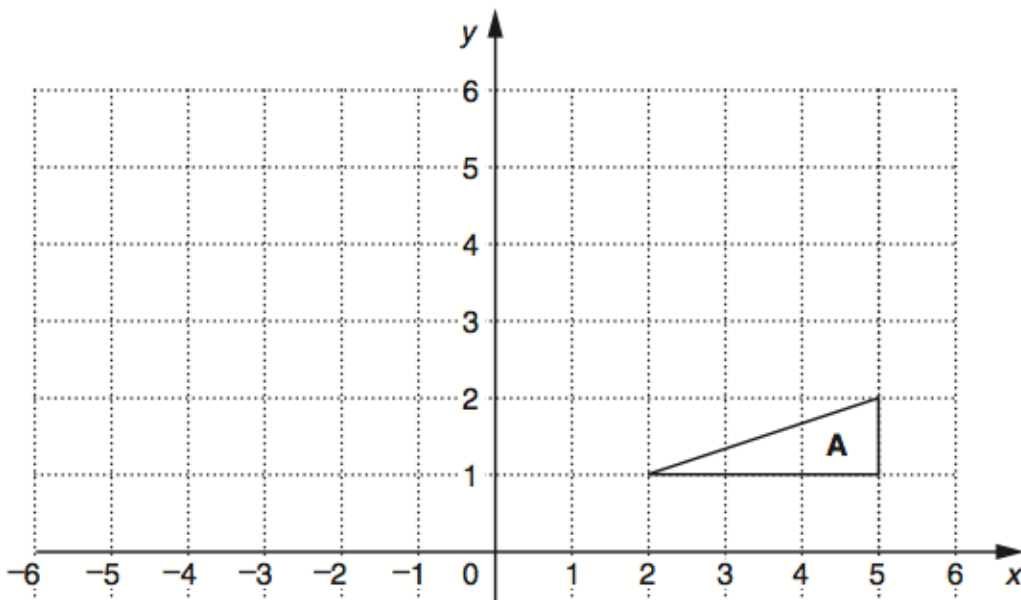
20th October	Foundation												
<p>Shown is a equilateral triangle. Each side is <math>2x + y</math></p> <p>Find an expression for the perimeter of the triangle.</p>													
<p>Fiona is playing a game. She throws 8 balls at a target, one at a time. Each hit is worth 5 points. Each miss is worth <math>-4</math> points. Fiona hits the target with 2 of the balls and misses with the rest.</p>	 <p>How many points does Fiona score?</p>												
<p>Is AC a straight line?</p>	 <p>Not drawn accurately</p>												
<table border="1" data-bbox="172 1335 767 1400"> <thead> <tr> <th>Day</th> <th>Monday</th> <th>Tuesday</th> <th>Wednesday</th> <th>Thursday</th> <th>Friday</th> </tr> </thead> <tbody> <tr> <td>Temperature</td> <td>-4</td> <td>1</td> <td>-6</td> <td>1</td> <td>-2</td> </tr> </tbody> </table> <p>What is the range of the temperatures?</p>	Day	Monday	Tuesday	Wednesday	Thursday	Friday	Temperature	-4	1	-6	1	-2	<p>What is the mean of the temperatures recorded?</p>
Day	Monday	Tuesday	Wednesday	Thursday	Friday								
Temperature	-4	1	-6	1	-2								
<p>The ratio of girls to boys in a class is <math>2 : 3</math></p> <p>What fraction of the class are girls?</p>	<p>What percentage of the class are boys?</p>												

# Heroes Tuition Centre - Homework

Name: \_\_\_\_\_

21st October

Foundation

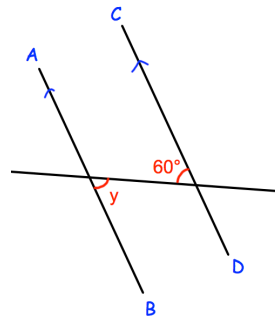


Reflect A in the y-axis

$$\frac{4}{5} \times \frac{9}{10}$$

$$\frac{2}{17} \div \frac{2}{5}$$

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



The ratio of boys to girls in a school is  
4 : 5

There are 240 boys in the school.  
How many students attend the school?

# Heroes Tuition Centre - Homework

Name: \_\_\_\_\_

22nd October

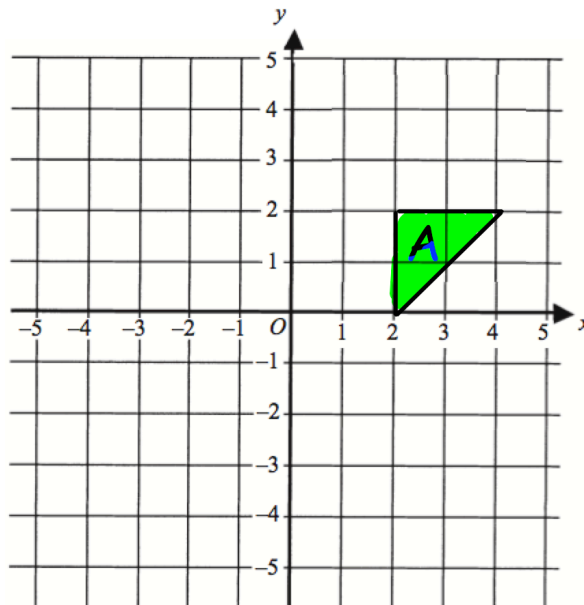
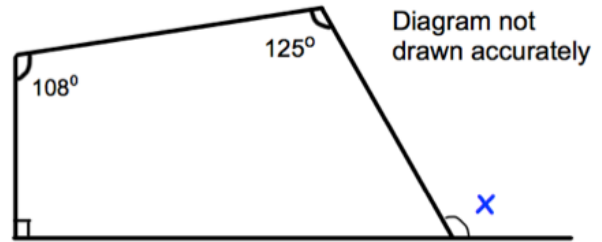
Foundation

A vintage car was bought for £9,400  
Since then the value of the car has  
increased by 29%



Calculate the value of the car.

Find  $x$



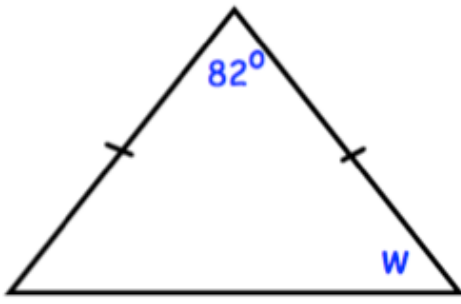
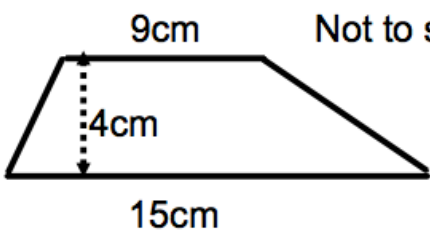
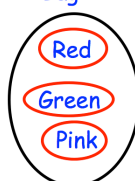
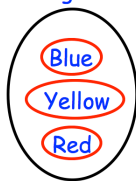
Reflect the triangle in the x-axis

Charlene and Danielle share some  
money in ratio 2 : 7

Danielle gets £25 more than Charlie.  
How much does each girl receive?

# Heroes Tuition Centre - Homework

Name: \_\_\_\_\_

<p><b>23rd October</b></p>	<p>Foundation</p>
<p>Find <math>w</math></p>	
<p>Here is a list of quadrilaterals.</p> <p>kite      rectangle      rhombus square      parallelogram</p> <p>For the following description, choose the correct name from the list.</p>	<p>All four sides are the same length. There are no right angles.</p>
<p>Calculate the area of the trapezium.</p>	
<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> <p>Bag 1</p>  </div> <div style="text-align: center;"> <p>Bag 2</p>  </div> </div> <p>Rob takes a counter at random from bag 1 and a counter at random from bag 2.</p>	<p>Write a list of all the possible combinations of the two counters that Rob can take.</p>
<p>Is time taken to read a book discrete or continuous data? Tick a box.</p> <p>Discrete <input type="checkbox"/>      Continuous <input type="checkbox"/></p> <p>Give a reason for your answer.</p>	



# Heroes Tuition Centre - Homework

Name: \_\_\_\_\_

24th October	Foundation																																																											
<p>55% students in a school are boys.</p> <p>What percentage are girls?</p>	<p>There are 300 students in the school.</p> <p>How many boys are there?</p>																																																											
<p>the cube root of 64</p>																																																												
<p>The distance between two cities is 2898 miles.</p> <p>The plane journey took 6 hours.</p> <p>Calculate the average speed of the plane.</p>																																																												
<p>Two fair six-sided dice are rolled.</p> <p>The score is <b>difference</b> between the numbers on each dice.</p> <p>Complete the table to show all possible scores.</p>	<table style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th colspan="2"></th> <th colspan="6">Dice 1</th> </tr> <tr> <th colspan="2"></th> <th>1</th> <th>2</th> <th>3</th> <th>4</th> <th>5</th> <th>6</th> </tr> </thead> <tbody> <tr> <th rowspan="6" style="vertical-align: middle;">Dice 2</th> <th>1</th> <td>0</td> <td>1</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <th>2</th> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <th>3</th> <td>2</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <th>4</th> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <th>5</th> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <th>6</th> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>			Dice 1								1	2	3	4	5	6	Dice 2	1	0	1					2	1						3	2						4							5							6						
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<p>Find the probability of scoring a 2</p>	<p>Find the probability of scoring a number less than 3</p>																																																											

# Heroes Tuition Centre - Homework

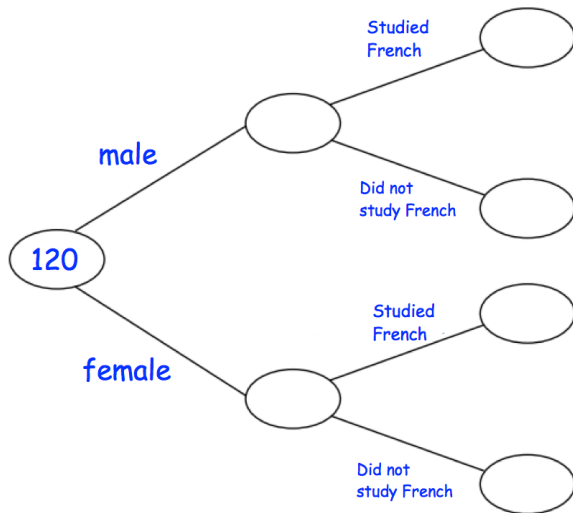
Name: \_\_\_\_\_

25th October

Foundation

Write 0.13 as a fraction

Write 0.13 as a percentage



There are 120 students in year 11.

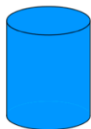
45 of the students are female  
27 of the male students studied French  
18 of the female students did not study French

Complete the frequency tree

$$\frac{3}{7} + \frac{1}{5}$$

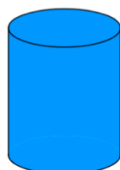
$$\frac{3}{7} \times \frac{1}{5}$$

4 Litres



£2.20

6 Litres

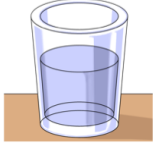




£3.24

Cooking oil is sold in two sizes of cans.  
Which size of can gives the better value for money?

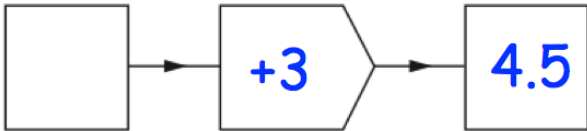
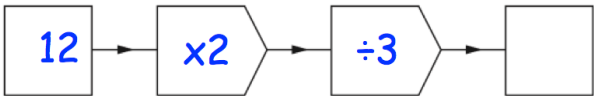
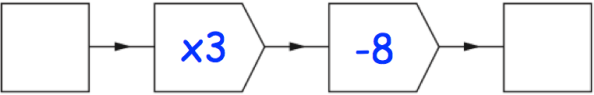
# Heroes Tuition Centre - Homework

Name: \_\_\_\_\_

26th October	Foundation
<p>Shown below is a glass of water.</p>  <p>A clear glass filled with blue water, sitting on a brown surface.</p>	<p>Below are four estimates of the amount of water in the glass. Circle the most appropriate estimate.</p> <p>15ml            1.5L    150ml    15L</p>
<p>The express bus from Dublin to Belfast takes <math>x</math> minutes. The standard bus takes 42 minutes longer.</p> <p>Write down an expression for the time the standard bus takes.</p>	 <p>A white bus with blue and red accents, viewed from a front-three-quarter angle.</p>
<p>The airplane takes half the time the express bus takes.</p> <p>Write down an expression for the time the airplane takes.</p>	 <p>A white airplane with red and blue stripes, viewed from a side profile.</p>
<p>Hannah is recording the number of letters in each word in an article.</p> <p>These are the first ten lengths.</p> <p>3    4    2    6    2 4    3    7    3    6</p>	<p>Work out the median.</p>
<p>The 11<sup>th</sup> word has 4 letters.</p> <p>Tick the box which describes what affect this will have on the mean.</p>	<p>The mean will decrease      The mean will remain the same      The mean will increase</p> <p><input type="checkbox"/>                                  <input type="checkbox"/>                                  <input type="checkbox"/></p>

# Heroes Tuition Centre - Homework

Name: \_\_\_\_\_

27th October	Foundation
<p>4 5 5 5 6 6 7 8 9 9</p> <p>Find the range.</p>	<p>Write down the mode.</p> <p>Find the median.</p>
<p><math>3^4</math></p>	
<p></p>	<p></p>
<p>The input is the same as the output.</p> <p>Find the input.</p>	<p></p>
<p>Expand <math>2(3w - 5y)</math></p>	<p>Expand <math>2w(3w^2 - 5)</math></p>

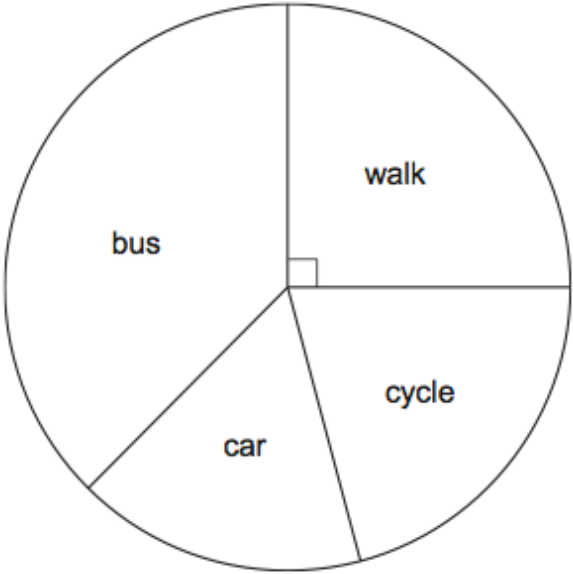
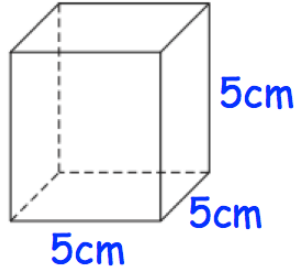
# Heroes Tuition Centre - Homework

Name: \_\_\_\_\_

28th October	Foundation
<p>William is <math>y</math> years old.</p> <p>Eoin is four years older than William.</p> <p>Write an expression for Eoin's age.</p>	
<p>Three consecutive numbers have a <b>sum</b> of 21.</p> <p>What are the three numbers?</p>	
<p><b>3    9    11    33</b></p> <p>Find the range.</p>	<p>Find the median.</p>
<p>James drives 164km.</p> <p>It takes 2 hours 30 minutes.</p> <p>Work out his speed.</p>	
<p>Write down the <math>n</math>th term for this sequence</p> <p>11   8   5   2   ...   ....</p>	


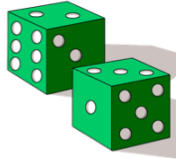
# Heroes Tuition Centre - Homework

Name: \_\_\_\_\_

29th October	Foundation
 <p>A pie chart divided into four sectors: 'bus' (largest sector), 'walk' (a quarter of the circle, 90 degrees), 'cycle', and 'car' (smallest sector). A right-angle symbol is shown at the center of the 'walk' sector.</p>	<p>What is the most popular method for students to travel to school?</p> <p>What fraction of students walk to school?</p>
 <p>A 3D drawing of a cube. The front-bottom edge is labeled '5cm', the front-right edge is labeled '5cm', and the back-right edge is labeled '5cm'.</p>	<p>Work out the surface area of the cube. State the units of your answer.</p>
<p>Shown below are five cards which are arranged in order from smallest to largest</p> <p><input type="text" value="5"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/></p>	<p>The range of the cards is 9. The median of the cards is 10. The mean of the cards is 9. Work out the 4 missing numbers.</p>
<p>Guy has some coins</p> <p>2p 5p 10p 20p 50p £1 £2</p> <p>He gives two coins to Andrew.</p> <p>One coin is 20% of the other.</p>	<p>List all the possible pairs of coins Guy could give Andrew.</p>

# Heroes Tuition Centre - Homework

Name: \_\_\_\_\_

30th October	Foundation																																																																
<p>Amie sells cars.</p> <p>She is paid £9 an hour and is paid a £50 bonus for each car sold.</p> <p>One week, Amie worked for 6 hours and sold 3 cars.</p>	<p>How much was her pay?</p>																																																																
	<p>The next week, Amie was paid £295.</p> <p>How many hours did she work and how many cars did she sell?</p> <p>Hours _____ Cars _____</p>																																																																
<p>Two fair six sided dice are rolled.</p>  <p>The numbers on the two dice are <b>multiplied</b> together to give a score. Complete the table</p>	<table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th colspan="2"></th> <th colspan="6" style="color: blue;">Dice 1</th> </tr> <tr> <th style="color: blue;">x</th> <th></th> <th>1</th> <th>2</th> <th>3</th> <th>4</th> <th>5</th> <th>6</th> </tr> </thead> <tbody> <tr> <td style="color: blue;">1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td style="color: blue;">2</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td style="color: blue;">3</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td style="color: blue;">4</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td style="color: blue;">5</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td style="color: blue;">6</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>			Dice 1						x		1	2	3	4	5	6	1								2								3								4								5								6							
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<p>Find the probability of a score of 8</p>	<p>Find the probability of a score of 8 or more</p>																																																																
<p>14 17 20 23 ... ..</p> <p>Work out the nth term and 100th term</p>																																																																	

# Heroes Tuition Centre - Homework

Name: \_\_\_\_\_

31st October

Foundation

A blue light flashes every 6 seconds.  
A green light flashes every 8 seconds.

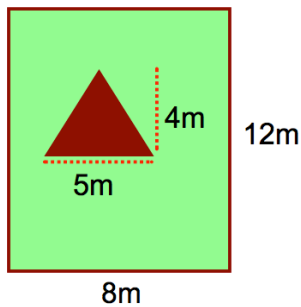
After how many seconds will they both flash at the same time?

Transport	Tally	Frequency
Walk		
Cycle		
Bus		
Car		

How many students are in the class?

Complete the tally chart.

What fraction of the students cycle to school?



Calculate the percentage of the garden that is grass.

Calculate the volume

