

Name: _____

HEROES TUITION


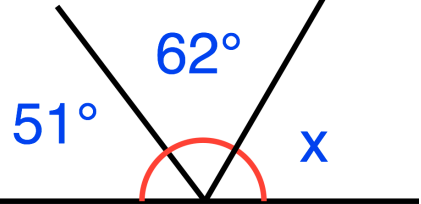
October Homework
Maths
Numeracy

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: _____

1st October	Numeracy
<p>An apple is cut into four equal sections One section is eaten. What fraction of the apple is left?</p>	
<p>Write down all the factors of 30</p>	<p>Write down all the multiples of 4 between 15 and 25</p>
<p>Find x</p>	
<p>825 people went to a rugby match. Tickets were £15 each. How much money was paid in total?</p>	
<p>A greengrocer sold: 4 apples 10 bananas 6 oranges 7 lemons</p> <p>Draw a pictogram to represent this</p>	

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Name: _____

2nd October

Numeracy

Write the three missing numbers in this multiplication grid.

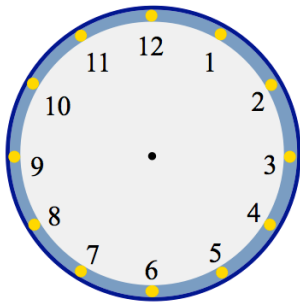
×	3	
4	12	20
		35

$20 - 5 \times 3$

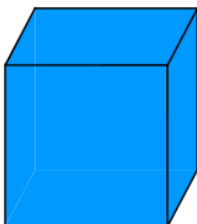
3×2^2

List the first 5 square numbers

List the first 5 prime numbers



Show the time 2:50 on the clock



Sketch the net for this solid

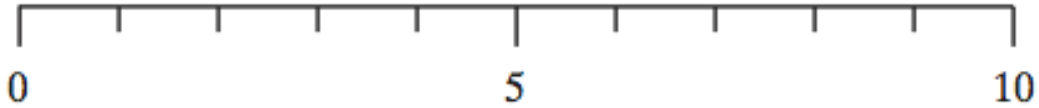
Heroes Tuition Centre - Homework

Name: _____

3rd October

Numeracy

Show 8.5 on the number line.



Simplify

$$\frac{27}{36}$$

Work out 132×23

Work out $987 \div 3$

A scone costs £1.50.

How many scones can be bought for £10?

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Name: _____

4th October

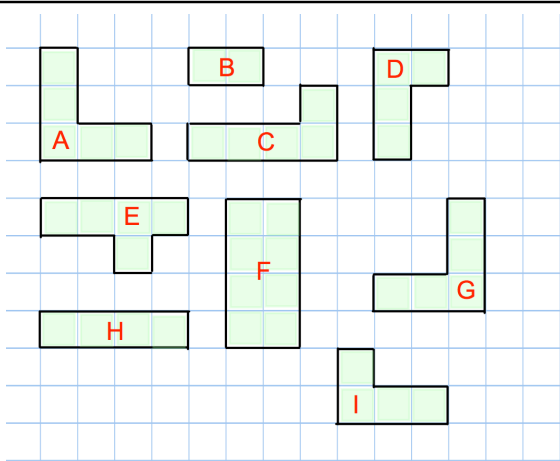
Numeracy

Write **twelve million** in figures.



A pizza costs £5.55
Jim pays with a £10 note.

How much change should he receive?



Find a shape that is congruent to A.

Find another pair of congruent shapes

Write down the 10th even number

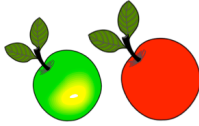

Heroes Tuition Centre - Homework

Name: _____

5th October	Numeracy
<p>Write these temperatures in order, starting with the coldest.</p> <p>11°C -4°C -15°C -7°C</p>	
<p>Write down all the factors of 20</p>	<p>Write down all the multiples of 7 between 20 and 40</p>
<p>List three fractions that are equivalent to $\frac{3}{5}$</p>	
<p>Work out 32×101</p>	
<p>20 pencils cost £5.</p> <p>What is the cost of one pencil?</p>	


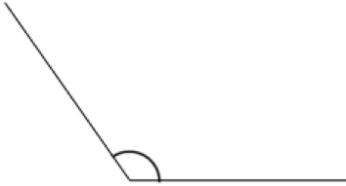
Heroes Tuition Centre - Homework

Name: _____

6th October	Numeracy
	<p>A red apple cost 27p A green apple cost 24p</p> <p>What is the total cost for one red and one green apple?</p>
<p>Jenny buys 3 lettuces that cost 70p each.</p> <p>She pays with a £5 note.</p> <p>How much change should she receive?</p>	
<p>Work out</p> $\frac{5}{6} \text{ of } 78$	
<p>Estimate the size of this angle</p>	
<p>List the first five multiples of 12</p>	<p>List the factors of 12</p>

Heroes Tuition Centre - Homework

Name: _____

7th October	Numeracy
 <p>This is an angle</p>	 <p>This is an angle</p>
<p>Work out</p> $77 + 7.7 + 0.77$	
<p>Andrew has 57 blocks of chocolate.</p> <p>He shares them equally between his 3 friends.</p> <p>How many blocks of chocolates does each friend receive?</p>	
<p>Work out</p> $4 \times (8 + 4)$	<p>Work out</p> $40 - 20 \div 5$
<p>Draw a pair of perpendicular lines</p>	<p>Draw a pair of parallel lines</p>

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Name: _____

8th October

Numeracy

Take 54 away from 141

Add 149 and 184

How many edges does a cube have?

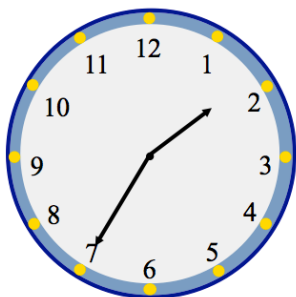


This is how much money Tim has saved up.

How much does he have?

Tim wants to save £25.

How much more does he need?



Vicky has just finished her lunch.

Write this time as 24 hour time.

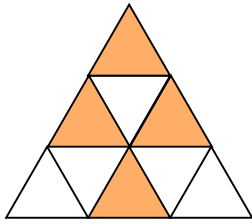
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Heroes Tuition Centre - Homework

Name: _____

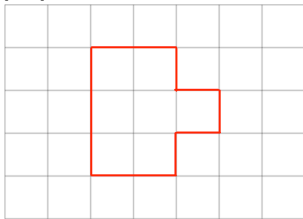
9th October

Numeracy



What fraction of this shape is unshaded?

Below is a shape on centimetre square paper.



Work out the perimeter

Write down the value of the digit 3 in the answer to

$$938 \times 100$$

The table shows the temperature at 5am on two days in May.

4th May	5th May	6th May
-6°C	3°C	



Work out the difference in temperature on the 4th May and the temperature on the 5th May.

The temperature on 6th May was 5°C lower than on the 5th May.

What was the temperature on the 6th May?

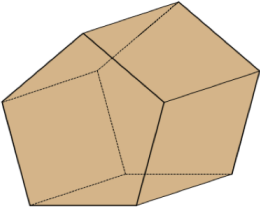
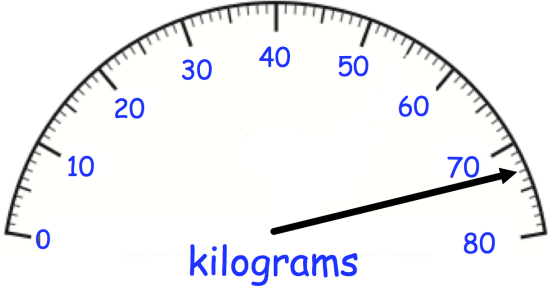
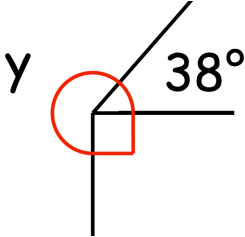
Heroes Tuition Centre - Homework

Name: _____

10th October	Numeracy
Write in words 4012	What is half of 4012
4 8 12 16 20 24 28 Above are some multiples of 4. Circle the square numbers	Underline the cube number.
A clock shows this time twice a day. 	Tick the two digital clocks that show this time. <input type="checkbox"/> 20:40 <input type="checkbox"/> 08:40 <input type="checkbox"/> 04:40 <input type="checkbox"/> 16:40 <input type="checkbox"/> 17:40
Find the missing terms of this sequence. ___ 400 200 100 50 ___	Find the missing terms of this sequence. 8 13 18 23 ___ 38
Tyler sat a maths test. He scored 16 out of 20. What percentage correct did he get?	

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Name: _____

11th October	Numeracy
$93 + 15$	$98 - 39$
<p>Shown is a pentagonal prism.</p> <p>How many vertices does it have?</p>	
	<p>What weight is shown on the scales?</p>
	<p>Find y</p>
<p>Work out</p> $(5 \times 4)^2$	

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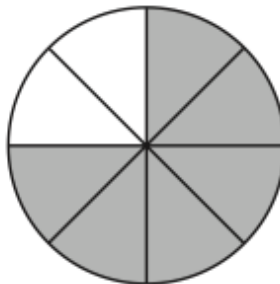
Name: _____

12th October

Numeracy

What percentage of the shape is shaded?

What fraction of the shape is shaded?



Sandwich

Frequency

Ham	○ ○ ○ ○ ○
Chicken	○ ○ ○
Egg	○ ○ ◐
Cheese	
Tuna	○ ○

Key: ○ = 4 people

How many people had a chicken sandwich.

7 people had a cheese sandwich.

Complete the pictogram.

**Multiply by 7
then
Subtract 12**

The first term is 5.

Work out the second term

$$3.9 + 1.25$$

$$203 - 50.5$$

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Name: _____

13th October

Numeracy

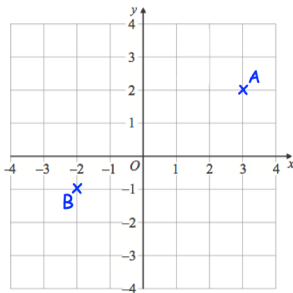
30 minutes = 60p

Jasmine parks in a car park for 2 hours.

How much will it cost?

Julie is making some curtains.
She has \$100 to spend.
The material costs \$14 per metre
and she needs 8 metres.

Can Julie afford the material

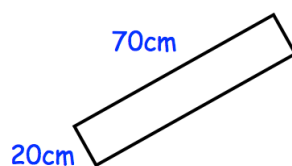


Write down the coordinates of A

Write down the coordinates of B

Mrs Jenkins had 284 Christmas cards
to post.
She posted 39 on Monday.
She posted 129 on Tuesday.
How many Christmas cards does she
have left to post?

Find the area of the rectangle



Heroes Tuition Centre - Homework

Name: _____

14th October

Numeracy

input

8



- 11



output

?

input

?



- 2



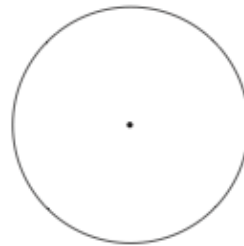
output

- 5

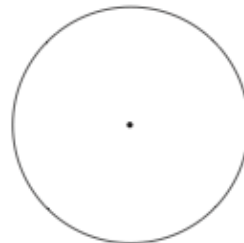
James has 86 marbles and Hannah has 95 marbles.

How many marbles do they have altogether?

Draw a diameter on the circle



Draw an arc on the circle



A football team gets 3 points for a win, 1 point for a draw and 0 points for a loss.

Southampton have played 8 matches and have 11 points.

Write down a way that Southampton could have been given 11 points.

Number of wins _____

Number of draws _____

Number of losses _____

Heroes Tuition Centre - Homework

Name: _____

15th October

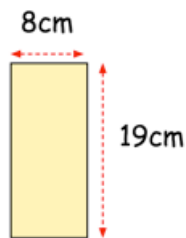
Numeracy

Two numbers are multiplied together and the answer is 26.

Write down two possible numbers.

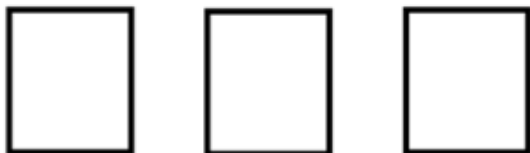
Work out $\frac{1}{3}$ of 27

Work out $\frac{2}{5}$ of 50



Find the area of the rectangle.

Find the perimeter of the rectangle.

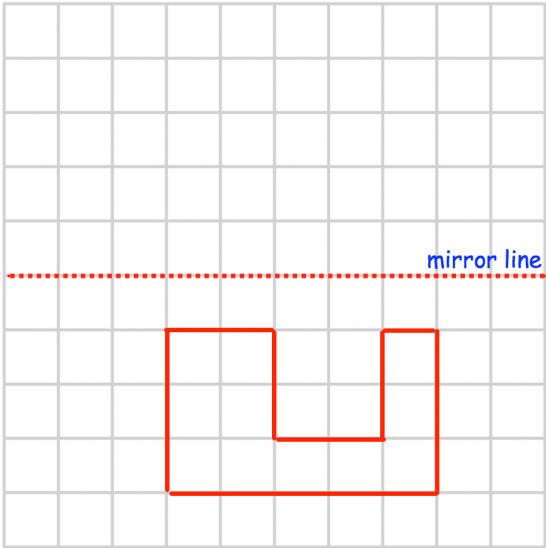


The product of the three numbers on the cards is 30.

Pick 3 suitable numbers.


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Name: _____

16th October	Numeracy
Work out $293 - 247$	Work out 23×8
Write twenty one thousand in figures.	
A barrel weighs 250kg. A boat is carrying 17 barrels. Work out the total weight of the barrels	
 <p>The grid is 10 units wide and 10 units high. A red shape is drawn on the grid, consisting of a 2x2 square on the left, a 1x2 rectangle in the middle, and a 1x2 square on the right. A horizontal dashed red line labeled "mirror line" is drawn across the grid at the 5th row from the top.</p>	Reflect the shape in the mirror line The shape is drawn on centimetre square paper. Find the perimeter of the shape.

Heroes Tuition Centre - Homework

Name: _____

17th October	Numeracy
<p>19725 people went to watch a football match between Chelsea and Fulham.</p> <p>Round this number to the nearest thousand.</p>	
<p>Work out $495 + 228$</p>	<p>Work out $4120 - 2911$</p>
<p>Write down the first five multiples of 7.</p>	<p>Write down all the factors of 22.</p>
 <p>A number line is shown with the number 2.6 at the left end and 2.7 at the right end. The line is divided into 10 equal intervals by vertical tick marks. An arrow points downwards to the 8th tick mark after 2.6.</p>	<p>What number is the arrow pointing to?</p>
<p>Beth has £2 Gracie has £1.08</p> <p>How much money should Beth give Gracie so that they have the same amount of money?</p>	

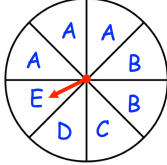
Heroes Tuition Centre - Homework

Name: _____

18th October	Numeracy												
Round 1060 to the nearest hundred.	Round 1060 to the nearest thousand.												
Simplify fully $\frac{120}{200}$													
Circle any prime number 6 9 10 11 12 13 15 18													
<table border="1" data-bbox="304 1323 764 1462"><thead><tr><th></th><th>Brazil</th><th>Norway</th><th>Canada</th><th>Japan</th><th>Ireland</th></tr></thead><tbody><tr><td>Medals won</td><td>17</td><td>4</td><td>18</td><td></td><td>5</td></tr></tbody></table> <p>The table shows how many medals were won in the 2012 olympics by 5 countries.</p>		Brazil	Norway	Canada	Japan	Ireland	Medals won	17	4	18		5	<p>The total number of medals won by these countries was 82.</p> <p>How many medals did Japan win?</p>
	Brazil	Norway	Canada	Japan	Ireland								
Medals won	17	4	18		5								
How many 5p coins make up £80?													

Heroes Tuition Centre - Homework

Name: _____

19th October	Numeracy
5.2 x 100	2300 ÷ 100
Work out 13^2	
Fill in the missing numbers	$\begin{array}{r} \square \ 5 \ 5 \\ + \ 2 \ \square \ 8 \\ \hline 6 \ 2 \ \square \end{array}$
 <p>A fair spinner has eight equal sections. The sections are labelled A, B, C, D and E as shown below.</p>	Which is the most likely letter that the arrow will land on?
What is the probability that the arrow lands on a C?	What is the probability that the arrow lands on a G?

Heroes Tuition Centre - Homework

Name: _____

20th October

Numeracy

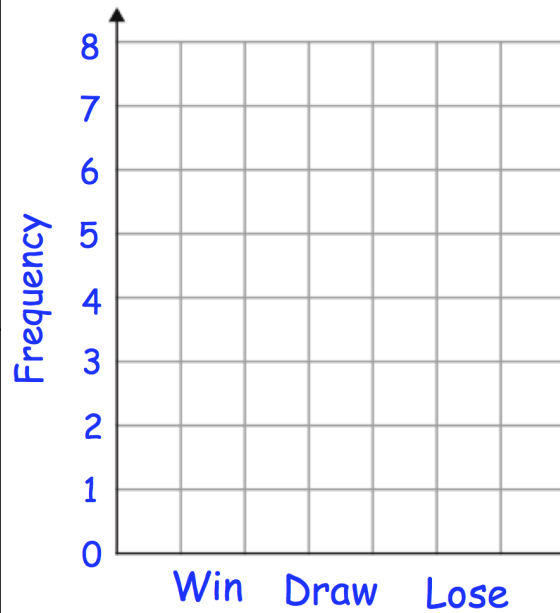
List the first ten square numbers.

Win Win Win Win Lose Draw Lose

Win Draw Win Draw Win Draw

Complete the tally chart and bar chart.

Result	Tally	Frequency
Win		
Draw		
Lose		



A box of staples holds 1,000 staples.
Georgia wants to buy 300,000 staples.

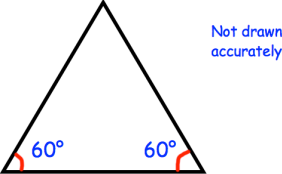
How many boxes of staples should
Georgia order?

Work out $1211 \div 7$

Work out 291×8

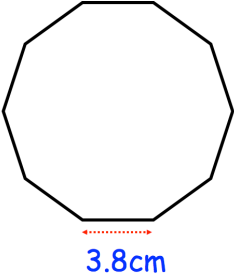
Heroes Tuition Centre - Homework

Name: _____

21st October	Numeracy
<p>Write down all the factors of 30.</p>	
<p>Mark arrives home from school at 4:10pm.</p> <p>Write this time in 24 hour time.</p>	
<p>Write down the tenth odd number</p>	
 <p>Not drawn accurately</p>	<p>What type of triangle is drawn? Explain your answer.</p>
<p>Emma runs 2.6 miles every day for five days.</p> <p>How far does she run in total?</p>	

Heroes Tuition Centre - Homework

Name: _____

22nd October	Numeracy
List the first ten prime numbers.	Write down all the factors of 50.
Here is a regular decagon Work out the perimeter of the decagon	 <p>A regular decagon is shown with a horizontal base. A red double-headed arrow below the base indicates its length, which is labeled as 3.8cm in blue text.</p>
Write down the next two terms in this sequence 125 137 149 ___ ___	
Work out 10% of £5.	
Convert 900 centimetres into metres.	Convert 500 millimetres into centimetres.

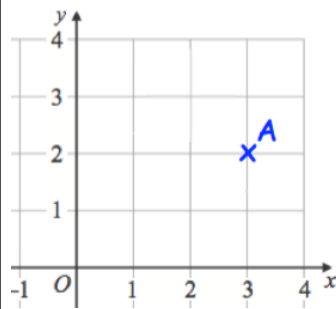
Heroes Tuition Centre - Homework

Name: _____

23rd October

Numeracy

Add together 3.65 and 0.7



Write down the coordinates of the point A.

Plot the coordinate (0,2)

What is the name given to the coordinate (0, 0)

Flight Number	Destination	Time of Take-off
AY556	New York	07:25
TT001	Sydney	07:55
M8012	Cairo	08:15
NWT9	Oslo	08:40


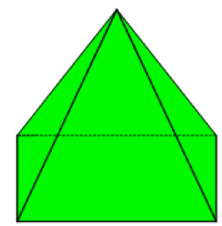
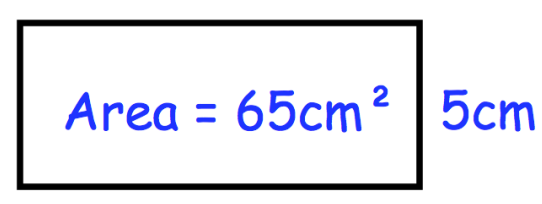
What is the destination of flight M8012?

The flight to Oslo lasts 3 hours 45 minutes.

What time should it land?

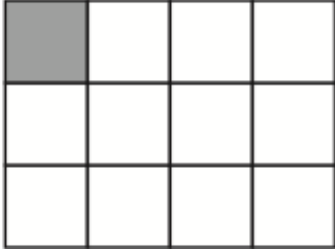
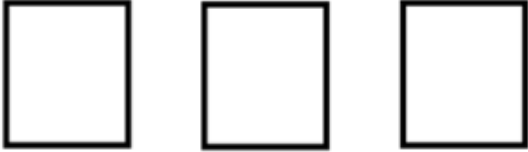
Heroes Tuition Centre - Homework

Name: _____

24th October	Numeracy
What number is the arrow pointing to?	
Write down all the factors of 44	
	How many edges does a square-based pyramid have?
<p style="text-align: center;">y</p> 	Find the length of the rectangle, y .
Simplify the ratio 40:8	

Heroes Tuition Centre - Homework

Name: _____

25th October	Numeracy
Round 484 to the nearest ten.	Round 885 to the nearest hundred.
	What fraction of the shape is shaded?
List the first 5 multiples of 9	List all the factors of 20.
Barry runs 1.5 miles every day for five days. How far does he run in total?	
	The three numbers on the cards have a sum of 60. Pick 3 suitable numbers.

Heroes Tuition Centre - Homework

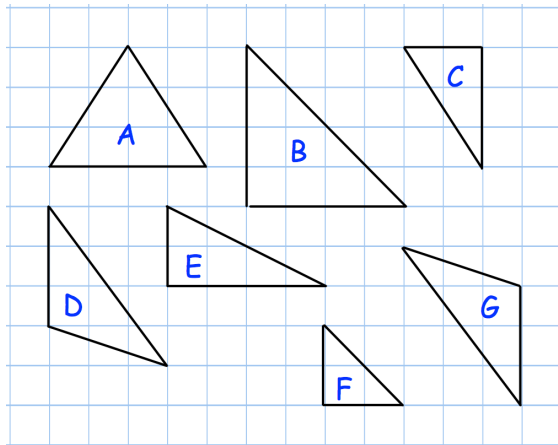
Name: _____

26th October

Numeracy

Write the number 7112 in words.

Write the number **two million** in figures.



Write down the letters of the two triangles which are congruent.

Write down the letters of the triangles that are right angled.

Tina is 1.78 metres tall.
Fiona is 4 centimetres taller than Tina.

Work out Fiona's height in metres.

Walter is buying a TV for £400.
He pays a deposit that is half of the cost.
He will pay the remaining cost over 10 monthly payments.

How much is each payment?

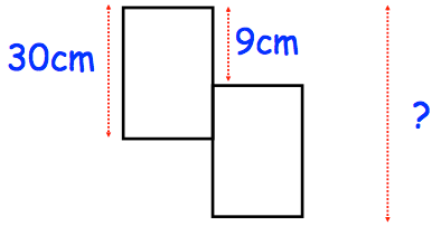
Heroes Tuition Centre - Homework

Name: _____

27th October	Numeracy
39×10	940×100
Martin works from 6am until 3pm from Monday to Thursday. On Friday he works from 8am until 1pm. On Saturday he works from 2pm until 5pm.	How many hours does Martin work in total?
Martin is paid £12 per hour. How much is he paid?	
-5×6	$20 \div -5$
List the first 10 square numbers	List the first 10 prime numbers

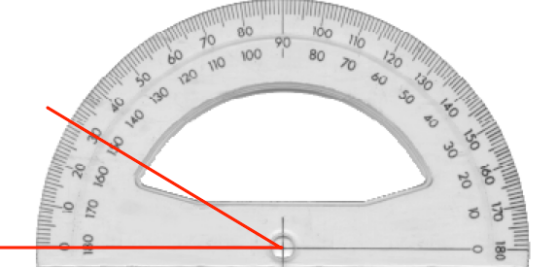
Heroes Tuition Centre - Homework

Name: _____

28th October	Numeracy
Work out 0.89×10	Work out $64.5 \div 10$
Simplify fully $\frac{35}{60}$	
 <p>30cm</p> <p>9cm</p> <p>?</p>	Shown are two identical rectangles. Find the missing length
$23 + 43 + 95$	392×6
Work out 9^2	What is the square root of 49?

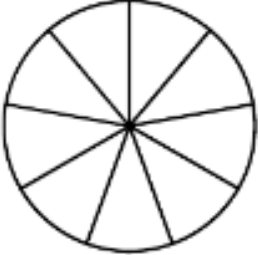
Heroes Tuition Centre - Homework

Name: _____

29th October	Numeracy
<p>A pen costs £2.37. Thomas pays with a £5 note.</p> <p>Work out how much change he should receive.</p>	
<p>Jonathan has been asked to draw a 150° angle.</p> <p>Explain why he is wrong.</p>	
<p>Work out $-8 + 3$</p>	<p>Work out $7 - 12 + 1$</p>
<p>$9815 + 4824$</p>	<p>394×3</p>
<p>44 cars are parked in a car park at 1pm.</p> <p>By 3pm, another 61 cars have entered the car park and 48 have left.</p>	<p>How many cars are in the car park at 3pm?</p>



Heroes Tuition Centre - Homework

Name: _____

30th October	Numeracy
<p>A race lasted 482 seconds.</p> <p>Write 482 correct to the nearest 100.</p>	<p>Write 482 seconds in minutes and seconds.</p> <p>Minutes _____ Seconds _____</p>
<p>How many weeks are there in 3 years?</p>	<p>How many years is it from 1972 to 2017?</p>
	<p>Shade in $\frac{1}{3}$ of the circle.</p>
<p>Roger scores 6 out of 8 in a quiz.</p> <p>Work out his score as a percentage</p>	
<p>Seven people spend £92.75 in total on a meal.</p> <p>They share the cost equally.</p> <p>How much does each person pay?</p>	

Heroes Tuition Centre - Homework

Name: _____

31st October	Numeracy																
<p>A town was founded in 1675.</p> <p>How many years old is the town?</p>	<p>What is the value of the 6 in 1675.</p>																
<p></p> <p>Measure the length of the line AB.</p>	<p>Mark with an X, the point C which is the midpoint of AB.</p>																
	<p>How many lines of symmetry does the sign have?</p>																
<p>Write down the number that is halfway between 1.6 and 1.7</p>																	
<table border="1" data-bbox="213 1659 767 1816"><tr><td>Foxtown</td><td></td><td></td><td></td></tr><tr><td>52</td><td>Sandcliff</td><td></td><td></td></tr><tr><td>70</td><td>32</td><td>Red Island</td><td></td></tr><tr><td>31</td><td>14</td><td>28</td><td>Donhampton</td></tr></table> <p>The table shows the distances in miles by road between some towns.</p>	Foxtown				52	Sandcliff			70	32	Red Island		31	14	28	Donhampton	<p>Write down the distance between Sandcliff and Donhampton</p>
Foxtown																	
52	Sandcliff																
70	32	Red Island															
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