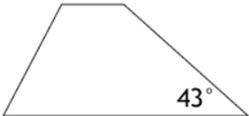
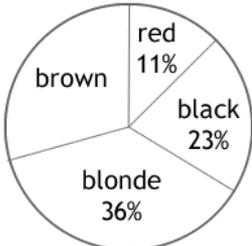
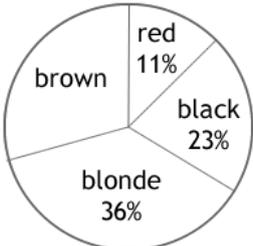
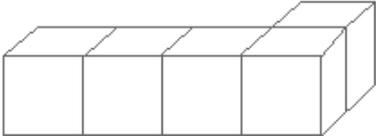
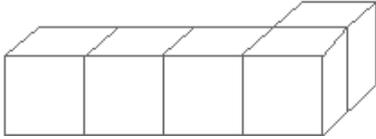
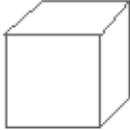
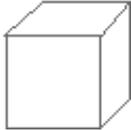
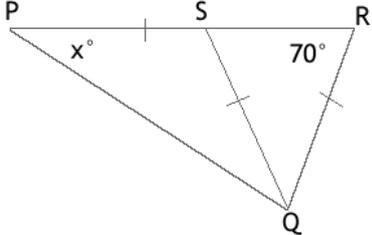
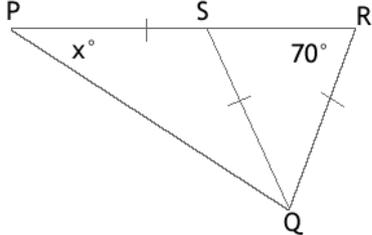
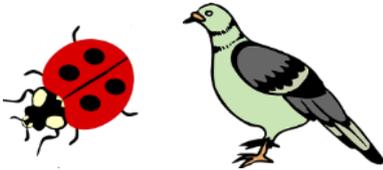
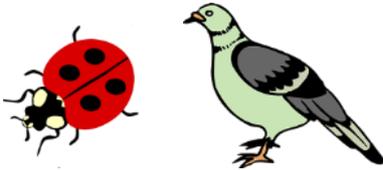
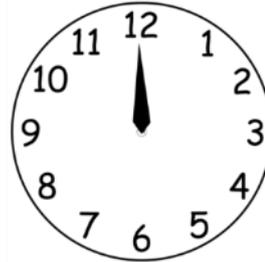


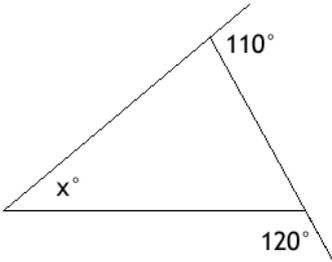
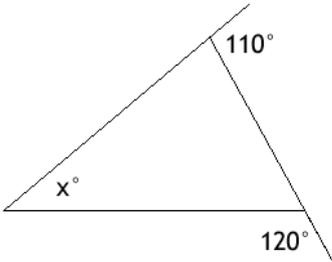
<h2>Question 1</h2>	<h2>Question 1</h2>
<p>Felix and Marmalade are two cats. Together they weigh 10kg. Felix weighs 4kg more than Marmalade. How much does Marmalade weigh?</p> 	<p>Felix and Marmalade are two cats. Together they weigh 10kg. Felix weighs 4kg more than Marmalade. How much does Marmalade weigh?</p> 
<h2>Question 2</h2>	<h2>Question 2</h2>
<p>One of the angles in a trapezium is 43° What is the sum of the three remaining angles?</p> 	<p>One of the angles in a trapezium is 43° What is the sum of the three remaining angles?</p> 
<h2>Question 3</h2>	<h2>Question 3</h2>
<p>The results of a survey of the hair colour of 800 people are shown in this pie chart. How many people had brown hair?</p> 	<p>The results of a survey of the hair colour of 800 people are shown in this pie chart. How many people had brown hair?</p> 

<p>Question 4 <input type="text"/></p>	<p>Question 4 <input type="text"/></p>
<p>I have five cubes all the same size. I glue them together to form an 'L' shape and place on a table. I then paint all of the faces that I can see. How many faces do I paint?</p> 	<p>I have five cubes all the same size. I glue them together to form an 'L' shape and place on a table. I then paint all of the faces that I can see. How many faces do I paint?</p> 
<p>Question 5 <input type="text"/></p>	<p>Question 5 <input type="text"/></p>
<p>How many pairs of parallel faces are there on a cube?</p> 	<p>How many pairs of parallel faces are there on a cube?</p> 
<p>Question 6 <input type="text"/></p>	<p>Question 6 <input type="text"/></p>
<p>Two positive numbers have a product of 90 and a difference of 9. What is their sum?</p> 	<p>Two positive numbers have a product of 90 and a difference of 9. What is their sum?</p> 

<h2>Question 7</h2> <div style="text-align: right;"><input type="text"/></div>	<h2>Question 7</h2> <div style="text-align: right;"><input type="text"/></div>								
 <p>What is the size of the angle marked x°?</p>	 <p>What is the size of the angle marked x°?</p>								
<h2>Question 8</h2> <div style="text-align: right;"><input type="text"/></div>	<h2>Question 8</h2> <div style="text-align: right;"><input type="text"/></div>								
<p>Alice in Wonderland pours 10 litres of treacle into 25 identical teapots for the Mad Hatter and fills each of them.</p> <p>How much treacle is in each pot?</p> 	<p>Alice in Wonderland pours 10 litres of treacle into 25 identical teapots for the Mad Hatter and fills each of them.</p> <p>How much treacle is in each pot?</p> 								
<h2>Question 9</h2> <div style="text-align: right;"><input type="text"/></div>	<h2>Question 9</h2> <div style="text-align: right;"><input type="text"/></div>								
<p>Henry has forgotten the last of the four digits of the code for his bike lock. He knows that the first three digits are 451 and the code is a multiple of 3, but is not a multiple of 5 or 9.</p> <p>What is the last digit?</p> <table border="1" data-bbox="153 1973 762 2022"> <tr> <td style="text-align: center;">4</td> <td style="text-align: center;">5</td> <td style="text-align: center;">1</td> <td style="text-align: center;">?</td> </tr> </table>	4	5	1	?	<p>Henry has forgotten the last of the four digits of the code for his bike lock. He knows that the first three digits are 451 and the code is a multiple of 3, but is not a multiple of 5 or 9.</p> <p>What is the last digit?</p> <table border="1" data-bbox="812 1973 1422 2022"> <tr> <td style="text-align: center;">4</td> <td style="text-align: center;">5</td> <td style="text-align: center;">1</td> <td style="text-align: center;">?</td> </tr> </table>	4	5	1	?
4	5	1	?						
4	5	1	?						

<h2>Question 10</h2>	<h2>Question 10</h2>																																																																																																				
<p>Jenny was picking strawberries in a field.</p> <p>When she dropped her bowl, one third of the strawberries were eaten by wasps, one quarter by ants and one sixth by a maggot.</p> <p>What fraction of the strawberries was left?</p> 	<p>Jenny was picking strawberries in a field.</p> <p>When she dropped her bowl, one third of the strawberries were eaten by wasps, one quarter by ants and one sixth by a maggot.</p> <p>What fraction of the strawberries was left?</p> 																																																																																																				
<h2>Question 11</h2>	<h2>Question 11</h2>																																																																																																				
<p>Lara is a ladybird and weighs 0.02g</p> <p>Sammy is a pigeon and weighs 2.02kg.</p> <p>How many times heavier than Lara is Sammy?</p> 	<p>Lara is a ladybird and weighs 0.02g</p> <p>Sammy is a pigeon and weighs 2.02kg.</p> <p>How many times heavier than Lara is Sammy?</p> 																																																																																																				
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<h2>Question 13</h2>	<h2>Question 13</h2>
<p>What is the:</p> <p>a) Highest common factor of 6 and 15?</p> <p>b) Lowest common multiple of 4 and 10?</p> <p>c) LCM and HCF of 4 and 6?</p> <p>d) HCF of 6, 10 and 12?</p>	<p>What is the:</p> <p>a) Highest common factor of 6 and 15?</p> <p>b) Lowest common multiple of 4 and 10?</p> <p>c) LCM and HCF of 4 and 6?</p> <p>d) HCF of 6, 10 and 12?</p>
<h2>Question 14</h2>	<h2>Question 14</h2>
<p>Which of these calculations gives the largest answer:</p> <p>a) $1 - 2 + 3 + 4$</p> <p>b) $1 + 2 - 3 + 4$</p> <p>c) $1 + 2 + 3 - 4$</p> <p>d) $1 + 2 - 3 - 4$</p> <p>e) $1 - 2 - 3 + 4$</p>	<p>Which of these calculations gives the largest answer:</p> <p>a) $1 - 2 + 3 + 4$</p> <p>b) $1 + 2 - 3 + 4$</p> <p>c) $1 + 2 + 3 - 4$</p> <p>d) $1 + 2 - 3 - 4$</p> <p>e) $1 - 2 - 3 + 4$</p>
<h2>Question 15</h2>	<h2>Question 15</h2>
<p>It has just turned 22:22 hours.</p> <p>How many minutes are there until midnight?</p> 	<p>It has just turned 22:22 hours.</p> <p>How many minutes are there until midnight?</p> 

<p>Question 16 <input type="text"/></p>	<p>Question 16 <input type="text"/></p>
<p>Calculate the size of angle x.</p> 	<p>Calculate the size of angle x.</p> 
<p>Question 17 <input type="text"/></p>	<p>Question 17 <input type="text"/></p>
<p>In the expression $1 \square 2 \square 3 \square 4$ Each \square is to be replaced by either + or x. What is the largest value of all the expressions that can be obtained in this way?</p>	<p>In the expression $1 \square 2 \square 3 \square 4$ Each \square is to be replaced by either + or x. What is the largest value of all the expressions that can be obtained in this way?</p>
<p>Question 18 <input type="text"/></p>	<p>Question 18 <input type="text"/></p>
<p>What is the smallest prime number that is the sum of three different prime numbers?</p> 	<p>What is the smallest prime number that is the sum of three different prime numbers?</p> 

<h2>Question 19</h2>	<h2>Question 19</h2>
<p>Jack and Jill played a game for two people. In each game, the winner was awarded 2 points and the loser 1 point. No games were drawn.</p> <p>Jack won exactly 4 games and Jill had a final score of 10 points.</p> <p>How many games did they play?</p> 	<p>Jack and Jill played a game for two people. In each game, the winner was awarded 2 points and the loser 1 point. No games were drawn.</p> <p>Jack won exactly 4 games and Jill had a final score of 10 points.</p> <p>How many games did they play?</p> 
<h2>Question 20</h2>	<h2>Question 20</h2>
<p>A fish weighs 3kg plus a third of its own weight.</p> <p>What is the weight of the fish in kilograms?</p> 	<p>A fish weighs 3kg plus a third of its own weight.</p> <p>What is the weight of the fish in kilograms?</p> 
<h2>Question 21</h2>	<h2>Question 21</h2>
<p>Harry repairs computers.</p> <p>He charges £56.80 for the first hour he works on the computer and £42.50 for each extra hour's work.</p> <p>If he charges a total of £269.30, how many hours did he work on this computer?</p> 	<p>Harry repairs computers.</p> <p>He charges £56.80 for the first hour he works on the computer and £42.50 for each extra hour's work.</p> <p>If he charges a total of £269.30, how many hours did he work on this computer?</p> 

<h2>Question 22</h2>	<h2>Question 22</h2>
<p>In 2016, Cardiff Chess Club's total income came from a council grant and members' fees.</p> <p>Council grant = £50 Members' fees = 240 at £5 each</p> <p>Work out the total income of the club for 2016</p> 	<p>In 2016, Cardiff Chess Club's total income came from a council grant and members' fees.</p> <p>Council grant = £50 Members' fees = 240 at £5 each</p> <p>Work out the total income of the club for 2016</p> 
<h2>Question 23</h2>	<h2>Question 23</h2>
<p>Every day, a quarter of a million babies are born in the world.</p> <p>Write a quarter of a million in figures.</p> <p>Work out the number of babies born in 28 days. Give your answer in millions.</p> 	<p>Every day, a quarter of a million babies are born in the world.</p> <p>Write a quarter of a million in figures.</p> <p>Work out the number of babies born in 28 days. Give your answer in millions.</p> 
<h2>Question 24</h2>	<h2>Question 24</h2>
<p>The cost of using a school photocopier is given by the rule: the cost of one copy is 4p</p> $\boxed{\text{cost of using the photocopier}} = \boxed{\text{number of copies}} \times \boxed{\text{cost of one copy}}$ <p>Jerry makes 96 copies. How much will Jerry need to pay?</p>	<p>The cost of using a school photocopier is given by the rule: the cost of one copy is 4p</p> $\boxed{\text{cost of using the photocopier}} = \boxed{\text{number of copies}} \times \boxed{\text{cost of one copy}}$ <p>Jerry makes 96 copies. How much will Jerry need to pay?</p>

Question 25



At what time does the train leave Coventry?

Station	Time of Leaving
Crewe	08 00
Wolverhampton	08 40
Birmingham	09 00
Coventry	09 30
Rugby	09 40
Milton Keynes	10 10

The train arrives in London at 10:45

How long should the train take to travel from Crewe to London?

Question 25



At what time does the train leave Coventry?

Station	Time of Leaving
Crewe	08 00
Wolverhampton	08 40
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Rugby	09 40
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The train arrives in London at 10:45

How long should the train take to travel from Crewe to London?

Question 26



Kim buys a cup of coffee and a roll. She pays with a £5 note.

How much change will she get?

Pete's Café	
Price List	
Cup of Tea	75p
Cup of Coffee	85p
Can of Cola	75p
Roll	£1.70
Sandwich	£1.35

Question 26



Kim buys a cup of coffee and a roll. She pays with a £5 note.

How much change will she get?

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Price List	
Cup of Tea	75p
Cup of Coffee	85p
Can of Cola	75p
Roll	£1.70
Sandwich	£1.35

Question 27



Danny shares a bag of 20 sweets with his friends.



He gives George $\frac{3}{5}$ of the sweets.

He gives Dipak $\frac{1}{10}$ of the sweets.

He keeps the rest for himself.

How many sweets does Danny keep for himself?

Question 27



Danny shares a bag of 20 sweets with his friends.



He gives George $\frac{3}{5}$ of the sweets.

He gives Dipak $\frac{1}{10}$ of the sweets.

He keeps the rest for himself.

How many sweets does Danny keep for himself?

<p>Question 28 <input type="text"/></p>	<p>Question 28 <input type="text"/></p>
<p>The cost of 20 litres of petrol is £19.50 Work out the cost of 1 litre.</p> 	<p>The cost of 20 litres of petrol is £19.50 Work out the cost of 1 litre.</p> 
<p>Question 29 <input type="text"/></p>	<p>Question 29 <input type="text"/></p>
<p>Michael went to America on holiday He changed £200 into Dollars. The exchange rate was £1 = \$1.40 How many dollars did he get?</p> 	<p>Michael went to America on holiday He changed £200 into Dollars. The exchange rate was £1 = \$1.40 How many dollars did he get?</p> 
<p>Question 30 <input type="text"/></p>	<p>Question 30 <input type="text"/></p>
<p>Michael was returning from his holiday in America. He had \$10.64 left and wanted to change it back into pounds. The exchange rate is £1 = \$1.33 How many pounds did he get?</p> 	<p>Michael was returning from his holiday in America. He had \$10.64 left and wanted to change it back into pounds. The exchange rate is £1 = \$1.33 How many pounds did he get?</p> 