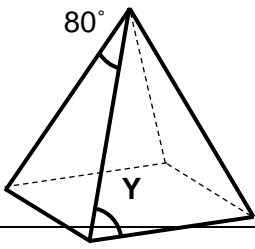
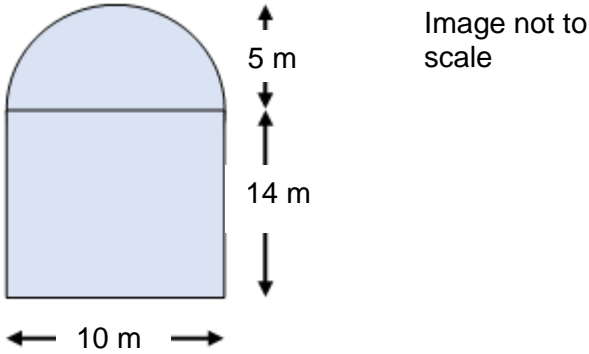


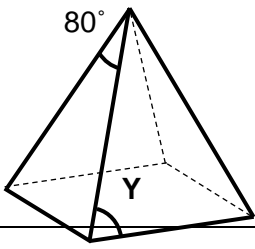
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No.	Question	Answer	Mark														
1	<p>100 miles = 160 km.</p> <p>The journey to Kathmandu is 84 km by car. How many miles is this?</p> <p><b>Note:</b> Give your answer to one decimal place.</p>		1														
2	<p>Last year, a dancing business made £9900 profit. They made 8% less this year.</p> <p>How much money did they make?</p>		1														
3	<p>Bilhana is building blocks for a set of toys.</p> <p><b>Surface Area = 155 cm<sup>2</sup></b> <b>Base = 5 cm x 5 cm</b></p> <div style="text-align: center;">  </div> <p style="text-align: right;">Not to scale</p>																
a	What is the height of each triangle?		1														
b	What is the angle of Y?		1														
4	<p>A paint shop is looking at which colours are the most popular. Last month, 390 pots of paints sold were in the following ratio:</p> <p style="text-align: center;">orange : grey : pink = 5 : 2 : 3</p>																
a	How many pots of orange paint were sold last month?		1														
b	If orange paint costs £5.50 to buy, and is sold for £11.27, how much profit was made on orange paint last month?		1														
5	<p>Bilhana counted how many vans they saw over a week:</p> <table border="1" style="margin-left: auto; margin-right: auto; border-collapse: collapse; text-align: center;"> <tr> <td>Mon</td><td>Tue</td><td>Wed</td><td>Thu</td><td>Fri</td><td>Sat</td><td>Sun</td> </tr> <tr> <td>16</td><td>10</td><td>15</td><td>27</td><td>18</td><td>20</td><td>25</td> </tr> </table> <p>What is the mean and median of the data?</p> <p><b>Note:</b> If needed, round your answers to two decimal places.</p>	Mon	Tue	Wed	Thu	Fri	Sat	Sun	16	10	15	27	18	20	25		1
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6	<p>A farmer is using a 1:25000 map to plan the route for moving their herd.</p> <p>If the journey is 1.60 km in real life, how far would this be on the map in cm?</p> <p><b>Note:</b> Give your answer to one decimal place.</p>		1														

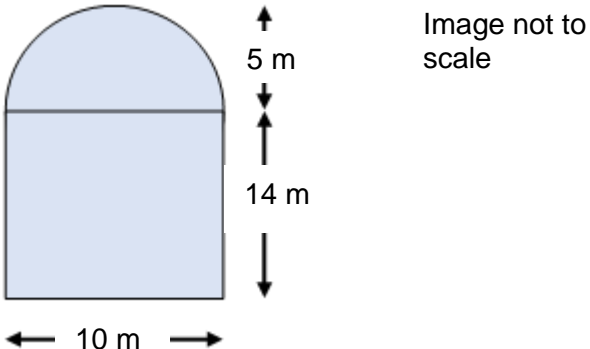
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7	<p>A college asked 12 students how many hours a day they spend on a computer.</p> <table border="1" data-bbox="373 181 849 331"> <thead> <tr> <th>Hours</th> <th>Frequency</th> </tr> </thead> <tbody> <tr> <td>0-2</td> <td>4</td> </tr> <tr> <td>3-5</td> <td>3</td> </tr> <tr> <td>6-8</td> <td>3</td> </tr> <tr> <td>9-11</td> <td>2</td> </tr> </tbody> </table> <p>Calculate an estimate for the mean number of hours spent on a computer each day.</p> <p><b>Note:</b> Round your answer to the nearest whole number.</p>	Hours	Frequency	0-2	4	3-5	3	6-8	3	9-11	2		1		
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10	<p>A group of individuals compares how far away their school is from their house:</p> <p>3.13 km, 1 kilometres, 2417 metres, <math>1\frac{3}{4}</math> km, 385.177 m</p> <p>What is the total distance in kilometres?</p> <p><b>Note:</b> Give your answer to three decimal places.</p>		1												
11	<p>Travelling at 50 miles per hour, it takes Yogesh 1 hr 42 min to get to his friend's house.</p> <p>How far did Yogesh travel?</p>		1												
12	<p>Bilhana is part of a team painting a wall that is 49 m high and 88 m wide. Each pot of paint covers <math>55\text{ m}^2</math> of wall.</p> <p>How many pots of paint does she need to paint the full wall?</p>		1												
13	<p>Yogesh is buying a carpet:</p>  <p>What is the perimeter of the carpet? Use <math>\pi = 3.14</math></p> <p><b>Note:</b> Give your answer to two decimal places.</p>		1												

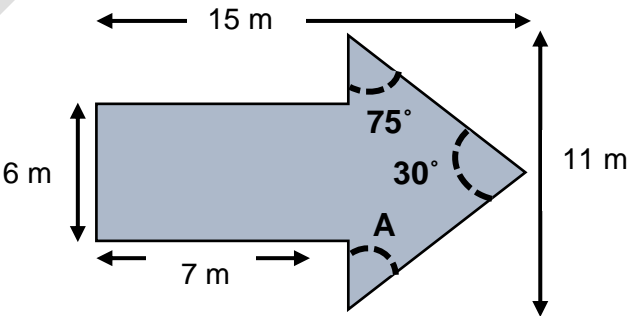
<b>Name:</b>		<b>Bib Number:</b>	
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No.	Question	Answer	Mark														
1	100 miles = 160 km. The journey to Kathmandu is 84 km by car. How many miles is this? <b>Note:</b> Give your answer to one decimal place.	<b>52.5 (miles)</b>	1														
2	Last year, a dancing business made £9900 profit. They made 8% less this year. How much money did they make?	<b>£9108(.00)</b>	1														
3	Bilhana is building blocks for a set of toys. <b>Surface Area = 155 cm<sup>2</sup></b> <b>Base = 5 cm x 5 cm</b>	Not to scale  	1														
a	What is the height of each triangle?			<b>13 cm</b>													
b	What is the angle of Y?			<b>50°</b>													
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b	If orange paint costs £5.50 to buy, and is sold for £11.27, how much profit was made on orange paint last month?	<b>£1125.15</b>	1														
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8	<p>A trekking company charges a base fee of Rs 900 for each trek, plus Rs 20.67 per each tent that is hired.</p> <p>How much would it cost Yogesh to go trekking, if he hires 8 tents with his friends?</p>	Rs 1065.36	1												
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11	<p>Travelling at 50 miles per hour, it takes Yogesh 1 hr 42 min to get to his friend's house.</p> <p>How far did Yogesh travel?</p>	85 miles	1												
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13	<p>Yogesh is buying a carpet:</p>  <p>What is the perimeter of the carpet? Use <math>\pi = 3.14</math></p> <p><b>Note:</b> Give your answer to two decimal places.</p>	53.70 m	1												

<b>Name:</b>		<b>Chest / Bib Number:</b>	
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No.	Question	Answer	Mark										
1	<p>Below is data from a study on yearly pay rates</p> <p style="text-align: center;">96654, 58018, 61254, 6827, 93785</p> <p>What is the range of the data?</p>	<b>89827</b>	1										
2	<p>100 miles = 160 km.</p> <p>If you travel 190 miles to visit a friend, how many kilometres do you travel?</p>	<b>304 km</b>	1										
3	<p>Sujan collected data on the ages of 11 young people who visited Bharatpur.</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Age</th> <th>Frequency</th> </tr> </thead> <tbody> <tr> <td>1-5</td> <td>3</td> </tr> <tr> <td>6-10</td> <td>3</td> </tr> <tr> <td>11-15</td> <td>3</td> </tr> <tr> <td>16-20</td> <td>2</td> </tr> </tbody> </table> <p>Calculate an estimate for the mean age of visitors.</p> <p><b>Note:</b> Round your answer to the nearest whole number.</p>	Age	Frequency	1-5	3	6-10	3	11-15	3	16-20	2	<b>10 years old</b>	1
Age	Frequency												
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16-20	2												
4	<p>You are planning a journey using a map, and measure a distance of 24 cm on the map.</p> <p>The map scale is 1:50000</p> <p>What is the actual distance in km?</p> <p><b>Note:</b> If needed, round your answer to 1 decimal place.</p>	<b>12.0 km</b>	1										
5	<p>It costs Rs 275 to hire a basketball court for the day. It costs an extra Rs 10 per hour to rent a ball.</p> <p>How much would it cost to rent the basketball court and 5 balls for 3 hours?</p>	<b>Rs 425</b>	1										
6	<p>Sujan is designing a new road sign:</p> 	<b>Image not to scale</b>											
a	What is the area of the road sign?	<b>86 m<sup>2</sup></b>	1										
b	Calculate the size of angle A	<b>75°</b>	1										

7	<p>A toy maker is collecting data for his shop. A group of children are asked about their favourite toy:</p> <table border="1" data-bbox="293 136 903 315"> <thead> <tr> <th></th> <th>Boys</th> <th>Girls</th> </tr> </thead> <tbody> <tr> <td>games console</td> <td>48</td> <td>24</td> </tr> <tr> <td>teddy</td> <td>272</td> <td>296</td> </tr> </tbody> </table> <p>What is the probability that a boy's favourite toy is a games console?</p> <p><b>Note:</b> Give your answer as a percentage.</p>		Boys	Girls	games console	48	24	teddy	272	296	<b>15%</b>	1									
	Boys	Girls																			
games console	48	24																			
teddy	272	296																			
8	<p>You are packing your bag for a flight. The maximum your bag can weigh is 23 kg. So far you have packed:</p> <p>Reading books: 1 3/5 kg  Boots: 7.00 kg  Jumpers: 5 kg  Sleeping bag: 1495 g  First aid kit: 501 g</p> <p>How much more weight, in kg, do you have left?</p> <p><b>Note:</b> Round your answer to 3 decimal places.</p>	<b>7.404 kg</b>	1																		
9	<p>A car leaves Bharatpur and travels for 2 hour 30 minutes. It travelled at an average speed of 60 km per hour.</p> <p>How far did the car travel?</p> <p><b>Note:</b> Round your answer to the nearest whole number of km.</p>	<b>150 km</b>	1																		
10	<p>Vision is buying benches for an event. 1559 people are attending the event. One bench can seat 5 people.</p> <p>How many benches does he need to buy so that everyone can sit down?</p>	<b>312 benches</b>	1																		
11	<p>Last year a car was worth £6000. This year it is worth £6840.</p> <p>What is the percentage increase?</p>	<b>14%</b>	1																		
12	<p>A cylindrical can has the following internal dimensions:</p> <p>Height: 14 cm  Diameter: 12 cm</p> <p>What volume of produce can you fit in the can? (<b>Use <math>\pi = 3.14</math></b>)</p> <p><b>Note:</b> Round your answer to 2 decimal places.</p>	<b>1582.56 cm<sup>3</sup></b>	1																		
13	<p>Sujan and Vision are going shopping:</p> <table border="1" data-bbox="277 1599 815 1854"> <thead> <tr> <th>Item</th> <th>Cost per Item</th> </tr> </thead> <tbody> <tr> <td>50 grams of wholemeal flour</td> <td>84 pence</td> </tr> <tr> <td>100 grams of chocolate powder</td> <td>£5.50</td> </tr> <tr> <td>100 millilitres of milk</td> <td>£4.80</td> </tr> <tr> <td>100g of butter</td> <td>£6.40</td> </tr> <tr> <td>1 pear</td> <td>32 pence</td> </tr> </tbody> </table> <table border="1" data-bbox="887 1621 1347 1720"> <thead> <tr> <th>Sujan's Shopping List</th> </tr> </thead> <tbody> <tr> <td>400 g of wholemeal flour</td> </tr> <tr> <td>450 g of chocolate powder</td> </tr> </tbody> </table> <table border="1" data-bbox="887 1742 1347 1841"> <thead> <tr> <th>Vision's Shopping List</th> </tr> </thead> <tbody> <tr> <td>7 pears</td> </tr> <tr> <td>150 g of butter</td> </tr> </tbody> </table>	Item	Cost per Item	50 grams of wholemeal flour	84 pence	100 grams of chocolate powder	£5.50	100 millilitres of milk	£4.80	100g of butter	£6.40	1 pear	32 pence	Sujan's Shopping List	400 g of wholemeal flour	450 g of chocolate powder	Vision's Shopping List	7 pears	150 g of butter		
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a.	How much would it cost Sujan to buy the ingredients on his shopping list?	<b>£31.47</b>	1																		
b.	What is the price difference between Sujan and Vision's shopping?	<b>£19.63</b>	1																		