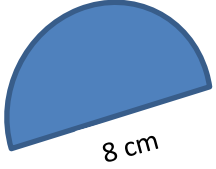


<p><b>1. Pythagoras' Theorem (2)</b></p> <p>Find the length of the gate.</p> <div style="border: 1px solid orange; width: 150px; height: 80px; position: relative; margin: 10px 0;"> <div style="position: absolute; top: 0; right: 0; left: 0; bottom: 0; border-left: 1px solid blue; border-right: 1px solid blue;"></div> <div style="position: absolute; top: 0; left: 0; bottom: 0; border-top: 1px solid blue; border-bottom: 1px solid blue;"></div> <div style="position: absolute; top: 0; right: 0; bottom: 0; border-right: 1px solid blue;"></div> <div style="position: absolute; top: 0; right: 0; bottom: 0; border-bottom: 1px solid blue;"></div> <div style="position: absolute; top: 10px; left: 10px; color: blue; font-size: 1.2em;">3.2 m</div> <div style="position: absolute; top: 10px; right: 10px; color: blue; font-size: 1.2em;">1.5 m</div> </div>	<p><b>2. Fractions (1)</b></p> <p>Change to an improper fraction</p> $3\frac{1}{4}$	<p><b>3. Statistics – median (4)</b></p> <p>Complete this frequency table</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr style="background-color: #d3d3d3;"> <th style="padding: 5px;">x</th> <th style="padding: 5px;">f</th> <th style="padding: 5px;">f × x</th> </tr> </thead> <tbody> <tr><td style="padding: 5px;">1</td><td style="padding: 5px;">5</td><td style="padding: 5px;"></td></tr> <tr><td style="padding: 5px;">2</td><td style="padding: 5px;">4</td><td style="padding: 5px;"></td></tr> <tr><td style="padding: 5px;">3</td><td style="padding: 5px;">1</td><td style="padding: 5px;"></td></tr> <tr><td style="padding: 5px;">4</td><td style="padding: 5px;">9</td><td style="padding: 5px;"></td></tr> <tr><td style="padding: 5px;">5</td><td style="padding: 5px;">3</td><td style="padding: 5px;"></td></tr> <tr><td style="padding: 5px;">6</td><td style="padding: 5px;">2</td><td style="padding: 5px;"></td></tr> <tr><td style="padding: 5px;">7</td><td style="padding: 5px;">1</td><td style="padding: 5px;"></td></tr> <tr><td style="padding: 5px;">8</td><td style="padding: 5px;">2</td><td style="padding: 5px;"></td></tr> <tr style="font-weight: bold;"> <td style="padding: 5px;">Totals</td> <td style="padding: 5px;"></td> <td style="padding: 5px;"></td> </tr> </tbody> </table> <p>Now find the mean.</p>	x	f	f × x	1	5		2	4		3	1		4	9		5	3		6	2		7	1		8	2		Totals		
x	f	f × x																														
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4	9																															
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6	2																															
7	1																															
8	2																															
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<p><b>4. Standard Notation (1)</b></p> <p>Write 0.0024 in standard notation</p>	<p><b>5. Solve Equations (2)</b></p> <p>a) <math>5x + 3 = -2</math></p> <p>b) <math>\frac{2x+3}{1} = 5</math></p>	<p><b>6. Geometry- angles(1)</b></p> <p>Show a pair of vertically opposite angles.</p>																														
<p><b>7. Expand (4)</b></p> <p>a) <math>3(2p + q)</math></p> <p>b) <math>-5(6 - 3t)</math></p>	<p><b>8. Financial Arithmetic (4)</b></p> <p>The simple interest formula is</p> $I = \frac{Prt}{100}$ <p>Explain what I, P, r and t represent.</p>	<p><b>9. Measurement- perimeter (2)</b></p> <p>Find the area of this semi-circle.</p> <p>Hint: <math>A = \pi r^2</math></p> <div style="text-align: right; margin-top: 10px;">  </div>																														
<p><b>10. Sketch the following (4)</b></p> <p>a) <math>y = 3x + 1</math> <span style="margin-left: 200px;">b) <math>y = -2x</math></span></p>																																