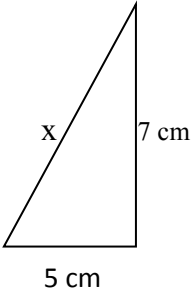
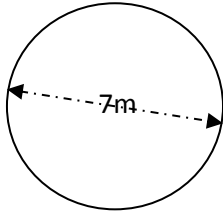


If a question has more than 1 mark, show some working out for full marks.

Due: \_\_\_\_\_

<p><b>1. Pythagoras' Theorem (2)</b> Find the length of the hypotenuse.</p>  <p> <math>x^2 = \underline{\quad} + 5^2</math>  <math>x^2 = \underline{\quad} + \underline{\quad}</math>  <math>x^2 =</math>  <math>x = \sqrt{\underline{\quad}}</math>  <math>x =</math> </p>	<p><b>2. Fractions (3)</b> a) Subtract and simplify</p> $\frac{3}{8} - \frac{4}{7}$ <p>b) Simplify</p> $\frac{12}{8}$	<p><b>3. Statistics – (2)</b> Representing the following in a stem and leaf plot</p> <p>23 34 56 22 34 27 45 28 51</p>												
<p><b>4. Trigonometry (3)</b> A ship sails on a bearing of 25°N for 12 km. How far east has it sailed?</p>	<p><b>5. Expanding (4)</b> Expand these brackets</p> <p>a) <math>4(x + 4)</math></p> <p>b) <math>3x(x - 3)</math></p>	<p><b>6. Geometry- (2)</b> Draw the net of a triangular prism</p>												
<p><b>7. Indices (2)</b> Simplify <math>3x^4 \times -5x^3</math></p>	<p><b>8. Financial Arithmetic (3)</b></p> <p>a) 10% of 240</p> <p>b) 20 % of 240</p> <p>c) 5 % of 240</p>	<p><b>9. Measurement (2)</b> Find the area of this circle <math>A = \pi r^2</math></p> 												
<p><b>10. Linear Equations (4)</b> Use the rule <math>y = 2x + 1</math> to fill in the table</p> <table border="1" data-bbox="71 1657 1197 1780"> <thead> <tr> <th>-2</th> <th>-1</th> <th>0</th> <th>1</th> <th>2</th> <th>3</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table> <p>What is the gradient of this linear equation?</p>			-2	-1	0	1	2	3						
-2	-1	0	1	2	3									