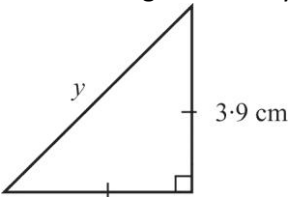


If a question has more than 1 mark, show some working out for full marks.

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

<p><b>1. Pythagoras' Theorem (2)</b> Find the length of the hypotenuse.</p> 	<p><b>2. Fractions (3)</b> a) Add and simplify</p> $\frac{2}{5} + \frac{6}{7}$ <p>b) Change to an improper fraction</p> $2\frac{1}{3}$	<p><b>3. Statistics – (3)</b> State whether the following data is categorical, ordinal, or numerical.</p> <p>a) The month of birth</p> <p>b) The number of loaves of bread sold in a day at a particular supermarket</p> <p>c) The income of a group of employees.</p>
<p><b>4. Trigonometry (3)</b> A building 20m high casts a shadow that is 7.5 m long. Calculate the angle of elevation of the sun.</p>	<p><b>5. Solving Equations (3)</b> Solve for x in each of the following</p> <p>a) <math>\frac{x}{6} = 3</math></p> <p>b) <math>5x = 4x - 17</math></p>	<p><b>6. Geometry- (2)</b> Draw the net of a cylinder.</p>
<p><b>7. Indices (2)</b> Simplify <math>\frac{16c^5}{8c^3}</math></p>	<p><b>8. Financial Arithmetic (2)</b> Find the simple interest if \$7000 is invested at 4% p.a. for 3 years.</p>	<p><b>9. Expand the bracket (2)</b> <math>3(2p + q)</math></p>
<p><b>10. Measurement - Surface Area (5)</b> Find the surface area of the shape below. Hint: there are 5 sides.</p> 