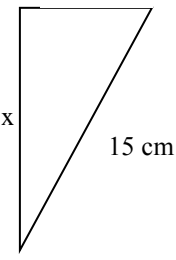
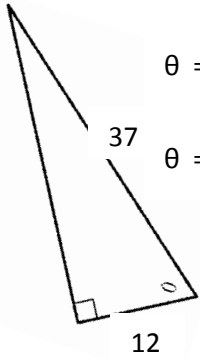
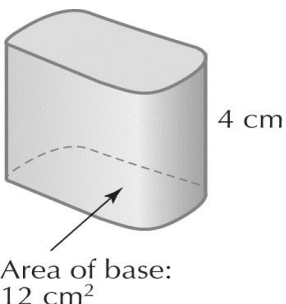


If a question has more than 1 mark, show some working out for full marks.

Due: _____

<p>1. Pythagoras' Theorem (2) Find the length of the hypotenuse.</p>  <p>$x^2 = 15^2 - \underline{\quad}$</p> <p>$x^2 = \underline{\quad} - \underline{\quad}$</p> <p>$x^2 =$</p> <p>$x = \sqrt{\underline{\quad}}$</p> <p>$x =$</p>	<p>2. Fractions (3) a) Divide and simplify</p> $\frac{7}{8} \div \frac{1}{4}$ <p>b) Change to an improper fraction</p> $4\frac{3}{5}$	<p>3. Statistics – (4) Find the mean, median and mode for:</p> <p>123, 345, 126, 379, 156, 180, 204</p>
<p>4. Trigonometry (2)</p>  <p>$\theta = \frac{12}{37}$</p> <p>$\theta = \sin^{-1}\left(\frac{12}{37}\right)$</p> <p>$\theta =$</p>	<p>5. Expanding (4) Expand these brackets</p> <p>a) $-3(x - 8)$</p> <p>b) $3z(2z + 4y)$</p>	<p>6. Geometry- (1) Show a pair of corresponding angles</p>
<p>7. Indices (2) Simplify $8x^{11} \div 2x^5$</p>	<p>8. Financial Arithmetic (3)</p> <p>a) 10% of \$4.80</p> <p>b) 20% of \$4.80</p> <p>c) 5% of \$4.80</p>	<p>9. Measurement (2) Find the volume of this prism</p>  <p>Area of base: 12 cm^2</p>
<p>10. Congruent triangles (7)</p> <p>a) Name the four tests for congruency</p> <ol style="list-style-type: none"> 1. 2. 3. 4. <p>b) State the test which applies for the following pair of congruent triangles and find the missing value.</p> 