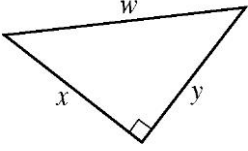
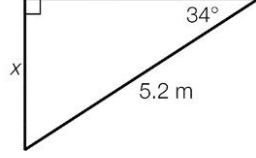



If a question has more than 1 mark, show some working out for full marks.

Due: _____

<p>1. Pythagoras' Theorem (1) State Pythagoras' Theorem for this triangle.</p> $\text{---}^2 = \text{---}^2 + \text{---}^2$ 	<p>2. Fractions (4)</p> <p>a) Write down two fractions which fall between $\frac{1}{2}$ and $\frac{3}{4}$.</p> <p>b) Change these decimals to fractions</p> <p>0.25</p> <p>• 0.3</p>	<p>3. Statistics – (4) Fill in the following frequency table</p> <table border="1" data-bbox="1077 280 1508 694"> <thead> <tr> <th>Age of Students</th> <th>Frequency</th> <th>$f \times x$</th> </tr> </thead> <tbody> <tr> <td>11</td> <td>3</td> <td></td> </tr> <tr> <td>12</td> <td>5</td> <td></td> </tr> <tr> <td>13</td> <td>9</td> <td></td> </tr> <tr> <td>14</td> <td>4</td> <td></td> </tr> <tr> <td>15</td> <td>3</td> <td></td> </tr> <tr> <td>totals</td> <td></td> <td></td> </tr> </tbody> </table>	Age of Students	Frequency	$f \times x$	11	3		12	5		13	9		14	4		15	3		totals		
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<p>4. Trigonometry (2) Use the sine ratio to find x.</p> 	<p>5. Factorise (4) (What two number multiply to give the end number and add/subtract to give the middle number?)</p> <p>a) $x^2 + 9x + 20$ () ()</p> <p>b) $x^2 - 5x + 6$ () ()</p>	<p>6. Geometry- (1) Show a pair of vertically opposite angles</p>																					
<p>7. Indices (3) Simplify</p> <p>a) $15c^9 \div 3c$</p> <p>b) $(a^3)^2$</p>	<p>8. Financial Arithmetic (2)</p> <p>Helen is paid an annual salary of \$65 400. How much is her fortnightly pay?</p>	<p>9. Measurement (2) Find the volume of this cylinder</p>  <p>$V = \pi r^2 h$</p>																					
<p>10. Solving Equations (7)</p> <p>a) $\frac{w}{4} = -20$ b) $4x - 6 = 14$</p> <p>c) $2y + 8 = 18$ d) $\frac{x}{3} + 2 = 12$</p>																							