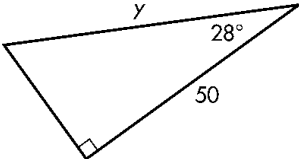
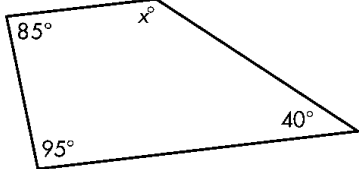
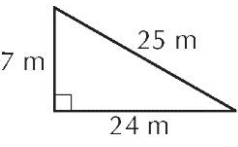


If a question has more than 1 mark, show some working out for full marks.

Due: _____

| | | |
|---|---|--|
| <p>1. Trigonometry (2) Find the value of y using the cosine ratio.</p>  | <p>2. Fractions (4) A On a number line show three fractions between $\frac{1}{2}$ and 1. b) Change these fractions to decimals</p> <p>$\frac{7}{8}$</p> <p>$\frac{2}{3}$</p> | <p>3. Statistics – (4) Use class intervals of 5 to express the following as a stem and leaf plot</p> <p>42, 31, 22, 21, 27, 20, 38, 27, 34, 23, 28, 12, 32, 35, 22, 23, 32, 40</p> |
| <p>4. Linear Equations (2) Solve for x.</p> <p>$3x + 4 = 19$</p> <p>$\frac{2x}{4} - 1 = 2$</p> | <p>5. Factorise (4) (What two numbers multiply to give the end number and add/subtract to give the middle number?)</p> <p>a) $x^2 + 5x + 6$</p> <p>()()</p> <p>b) $x^2 - 7x + 6$</p> <p>()()</p> | <p>6. Geometry- (2) State the value of x. Full marks for showing working out.</p>  |
| <p>7. Indices (2) Expand</p> <p>c^4b^3</p> <p>Simplify</p> <p>$c \times c \times c \times b \times b$</p> | <p>8. Financial Arithmetic (2) Joe sells vacuum cleaners to the value of \$ 4000. His commission is 12 %. How much does he make?</p> | <p>9. Measurement (3) Find the perimeter and area of this triangle. Correct units for full marks.</p>  |
| <p>10. Probability (3) A crate contains 12 bottles of lemonade; 4 are cola flavoured, 3 are lime, 4 are orange and 1 is raspberry.</p> <p>a) If a bottle is selected at random, what is the probability that it will be orange?</p> <p>b) What is the probability it will not be cola?</p> <p>c) What is the probability it will be either lime or orange?</p> | | |