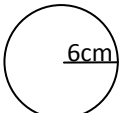
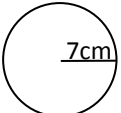
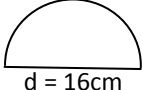
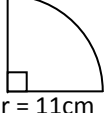
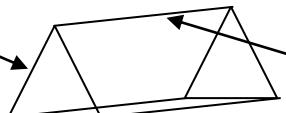
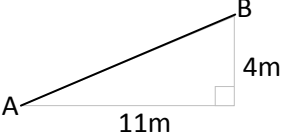
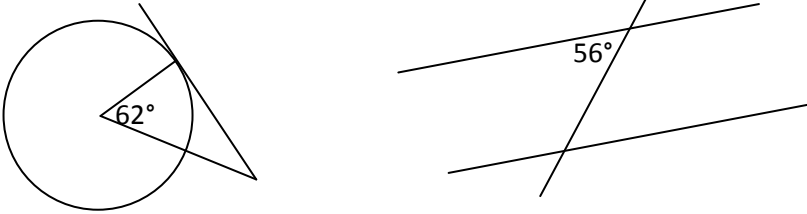
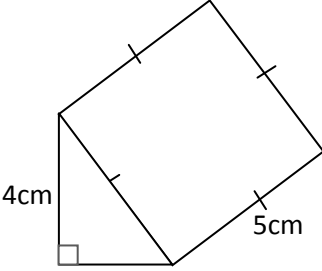


Level 4 Revision Checklist 1

<p>a) Evaluate $7 + 3 \times 4 - 2$ $(7 + 3) \times 4 - 2$ $7 + 3 \times (4 - 2)$</p> <p>$28 \div 4 - 3 + 4$ $28 \div 4 - (3 + 4)$ $2 \times 5^2 - 1.$</p>	<p>BIDMAS</p> <p>☹ ☺ ☺</p> <p><input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p>										
<p>b) Write: 45800 into scientific notation</p> <p>3.762×10^7 in full.</p> <p>New Zealand's population is 4.8 million people. If there are 7 times as many sheep as people, how many sheep are there? Answer in scientific notation.</p>	<p>Scientific Notation</p> <p>☹ ☺ ☺</p> <p><input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p>										
<p>c) A cyclist covers 70 miles in $2\frac{1}{2}$ hours. What is his average speed?</p> <p>Amy drove 260 km at an average speed of 80 km/h without stopping. If her journey finished at 9pm, what time did it start?</p>	<p>Distance, Speed & Time</p> <p>☹ ☺ ☺</p> <p><input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p>										
<p>d) Calculate the mean, median mode and range of these data:</p> <p>1, 4, 4, 6, 7, 11, 15, 16 4, 7, 8, 8, 8, 8, 9, 12.</p>	<p>Statistics</p> <p>☹ ☺ ☺</p> <p><input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p>										
<p>e) Calculate $\frac{3}{4} + \frac{1}{3}$ $\frac{2}{5} - \frac{5}{6}$ $\frac{6}{7} \times \frac{3}{4}$ $1\frac{1}{8} \div 1\frac{1}{2}.$</p>	<p>Fractions</p> <p>☹ ☺ ☺</p> <p><input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p>										
<p>f) Simplify: $3(x+4) - 4$ $5 + 2(2x - 3) + 1.$</p> <p>Factorise: $5x - 30$ $8y + 28.$</p> <p>Evaluate $(2 + y)^2 - 3y$ when $y = -1.$</p>	<p>Brackets & Factors</p> <p>☹ ☺ ☺</p> <p><input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p>										
<p>g) Calculate:</p> <div style="display: flex; justify-content: space-around; align-items: flex-end;"> <div style="text-align: center;">  <p>6cm</p> <p>Circumference</p> </div> <div style="text-align: center;">  <p>7cm</p> <p>Area.</p> </div> <div style="text-align: center;">  <p>d = 16cm</p> </div> <div style="text-align: center;">  <p>r = 11cm</p> </div> </div> <p>Which has the greater perimeter?</p>	<p>Circles</p> <p>☹ ☺ ☺</p> <p><input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p>										
<p>h) Calculate the volume of this triangular prism.</p> <p>$A = 24\text{cm}^2$  $l = 11\text{cm}$</p>	<p>Volume of Prisms</p> <p>☹ ☺ ☺</p> <p><input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p>										
<p>i) Work out the formulae for this sequence of numbers:</p> <table style="margin-left: 20px;"> <tr> <td>x</td> <td>1</td> <td>2</td> <td>3</td> <td>4</td> </tr> <tr> <td>y</td> <td>4</td> <td>7</td> <td>10</td> <td>13</td> </tr> </table> <p>Which is the 5th term? The 10th term? Which term in the sequence is 100?</p>	x	1	2	3	4	y	4	7	10	13	<p>Sequences & Formulae</p> <p>☹ ☺ ☺</p> <p><input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p>
x	1	2	3	4							
y	4	7	10	13							
<p>j) There is a 55% chance of rain. What is the probability that it will stay dry?</p> <p>Mark has a 3 in 7 chance of winning a prize in a competition and Tim has a 5 in 12 chance of winning a prize. Who is more likely to win a prize?</p>	<p>Probability</p> <p>☹ ☺ ☺</p> <p><input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p>										

<p>k)</p> 	<p>Calculate the gradient of the sloping line AB.</p>	<p>Gradients & Lines</p> <p>☹ ☺ ☺</p> <p><input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p>
<p>l) Work out the length of the line AB above correct to 1 decimal place.</p> <p>Calculate the angle B at the top of the triangle above.</p>		<p>Trigonometry</p> <p>☹ ☺ ☺</p> <p><input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p>
<p>m) Copy these diagrams and calculate the remaining angles:</p> 		<p>Angle & Circle Theorems</p> <p>☹ ☺ ☺</p> <p><input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p>
<p>n) Calculate the area of this composite shape.</p> 		<p>Quadrilaterals</p> <p>☹ ☺ ☺</p> <p><input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p>
<p>o) Construct a stem and leaf diagram for the following measurements (cm):</p> <p>4.5 3.8 2.1 6.3 5.5 5.8 4.0 3.9</p> <p>2.5 4.7 2.4 5.8 3.6 6.1 4.2 5.2</p> <p>What is the median measurement?</p>		<p>Interpreting Data</p> <p>☹ ☺ ☺</p> <p><input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p>
<p>p) Solve:</p> $3x + 5 = 11$ $3(x + 5) + 2 = 11$ $3(x + 5) - 2 = 11(x - 1)$		<p>Equations</p> <p>☹ ☺ ☺</p> <p><input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p>
<p>q) Bill can type at 22 words per minute. How long will it take him to type 110 words?</p> <p>How many words will he type in 8 minutes and 30 seconds?</p>		<p>Ratio & Proportion</p> <p>☹ ☺ ☺</p> <p><input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p>