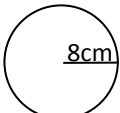
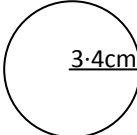
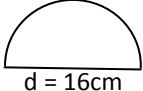
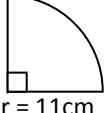
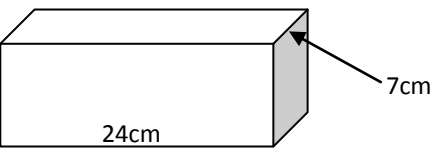

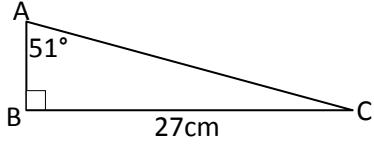

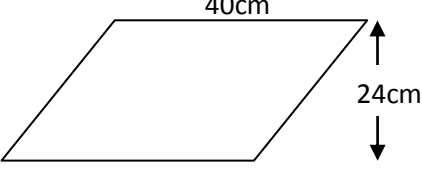
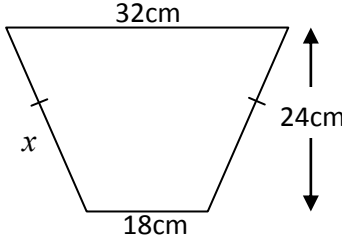

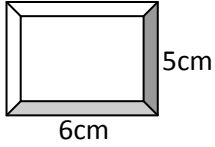
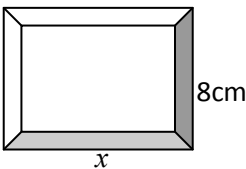


Level 4 Revision Checklist 2

<p>a) Evaluate $12 + 8 \times 7 - 5$ $(12 + 8) \times 7 - 5$ $12 + 8 \times (7 - 5)$</p> <p>$45 \div 9 - 4 - 2$ $45 \div (9 - 4) - 2$ $4^3 - 7 \times 6$.</p>	<p>BIDMAS</p> <p>☹ ☺ ☺</p> <p><input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p>
<p>b) Write: 0.00621 into scientific notation</p> <p>9.595×10^2 in full.</p> <p>There are, on average, 7×10^{27} atoms in a human body. Approximately how many atoms will there be in a school whose roll is 800 pupils?</p>	<p>Scientific Notation</p> <p>☹ ☺ ☺</p> <p><input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p>
<p>c) John drove at an average speed of 72 km/h for 4 hours and 20 minutes. Exactly how far did he travel?</p> <p>The current land speed record is approximately 760 mph. How long would it take to drive at this speed from here to Aberdeen, a distance of 68.4 miles?</p>	<p>Distance, Speed & Time</p> <p>☹ ☺ ☺</p> <p><input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p>
<p>d) In the data set 3, 5, 6, 7, 8, 9, x, 13 the mean is 7.5. Calculate x.</p> <p>In the data set 13, 24, 22, 19, 14, y, 27, 10 the median is 17.5. Calculate y.</p>	<p>Statistics</p> <p>☹ ☺ ☺</p> <p><input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p>
<p>e) Calculate $\frac{2}{5} + \frac{3}{7}$ $4\frac{1}{2} - 1\frac{3}{8}$ $\frac{3}{5} \times 1\frac{1}{2}$ $2\frac{1}{3} \div 1\frac{2}{5}$.</p>	<p>Fractions</p> <p>☹ ☺ ☺</p> <p><input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p>
<p>f) Simplify: $4(x - 7) - 1$ $10 + 2(3x - 8) + 7$.</p> <p>Factorise: $24x - 36$ $63x - 35$ $x^2 - 4x$.</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>8cm</p> <p>Circumference</p> </div> <div style="text-align: center;">  <p>3.4cm</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 area?</p>	<p>Circles</p> <p>☹ ☺ ☺</p> <p><input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p>
<p>h) Calculate the volume of this cuboid.</p> <div style="text-align: center;">  </div>	<p>Volume of Prisms</p> <p>☹ ☺ ☺</p> <p><input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p>
<p>i) Change the subject of these formulae to x:</p> <p>$y = x - 4$ $p = 5x$ $a = 3x + 2$</p>	<p>Changing the Subject</p> <p>☹ ☺ ☺</p> <p><input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p>
<p>j) A bag contains 6 yellow, 5 blue, 3 green and 2 red counters.</p> <p>Gemma takes a counter from the bag. What is the probability that she selects a red one?</p> <p>She chooses a red one and doesn't replace it. What is the probability that the next one she chooses is yellow?</p>	<p>Probability</p> <p>☹ ☺ ☺</p> <p><input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p>

<p>k)</p> 	<p>A builder is making a ramp out of concrete. To meet building regulations, the gradient of this ramp must be less than 0.04.</p> <p>Does the ramp on the left meet the regulations?</p>	<p>Gradients & Lines</p> <p>☹ ☺ ☺</p> <p><input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p>
<p>l) Calculate the length of the line AB in this triangle.</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 these shapes.</p>	  <p>Show that $x = 25\text{cm}$.</p>	<p>Quadrilaterals</p> <p>☹ ☺ ☺</p> <p><input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p>
<p>o) Write down the order of symmetry of these shapes:</p>		<p>Rotational Symmetry</p> <p>☹ ☺ ☺</p> <p><input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p>
<p>p) Solve:</p>	$7x + 8 = 50$ $5(2x - 3) \leq 55$ $10x + 14 = 2x + 46$ $\frac{1}{4}x + 6 = 10.$	<p>Equations & Inequations</p> <p>☹ ☺ ☺</p> <p><input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p>
<p>q) Work out the enlargement scale factor between these shapes:</p>	  <p>Calculate x.</p>	<p>Ratio & Proportion</p> <p>☹ ☺ ☺</p> <p><input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p>
<p>r) A rectangle ABCD has coordinates A(1,6), B(7,6), C(7,1) and D(1,1). The rectangle is moved two units left and four units down. Write down the coordinates of the new points. Label them A', B', C' and D'.</p>		<p>Transformation</p> <p>☹ ☺ ☺</p> <p><input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p>