

















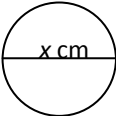



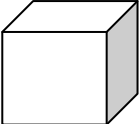











Level 4 Revision Checklist 4

a) Evaluate $35 + 7 \div 7 + 7$ $(35 + 7) \div 7 - 7$ $(35 + 7) \div (7 + 7)$.	BIDMAS    <input data-bbox="1174 248 1230 304" type="checkbox"/> <input data-bbox="1294 248 1350 304" type="checkbox"/> <input data-bbox="1414 248 1469 304" type="checkbox"/>
b) Write: 0.0000789 in scientific notation 1.01×10^5 in full.	Scientific Notation    <input data-bbox="1174 398 1230 454" type="checkbox"/> <input data-bbox="1294 398 1350 454" type="checkbox"/> <input data-bbox="1414 398 1469 454" type="checkbox"/>
c) Laura drove from Monifieth to London, a distance of 484 miles. She started her journey at 9:20a.m. and made two stops totalling 1 hour 45 minutes. She drove at an average speed of 55 mph. At what time did she arrive in London?	Distance, Speed & Time    <input data-bbox="1174 564 1230 620" type="checkbox"/> <input data-bbox="1294 564 1350 620" type="checkbox"/> <input data-bbox="1414 564 1469 620" type="checkbox"/>
d) Calculate the mean, median and mode of these data: 10, 12, 13, 13, 13, 15, 18, 18, 19, 20, 22, 23, 27 4, 15, 22, 10, 6, 3, 15, 28, 17, 19, 22, 3, 20, 27, 5, 8.	Statistics    <input data-bbox="1174 761 1230 817" type="checkbox"/> <input data-bbox="1294 761 1350 817" type="checkbox"/> <input data-bbox="1414 761 1469 817" type="checkbox"/>
e) Calculate: $2\frac{3}{5} + 3\frac{1}{4}$ $8\frac{1}{3} - 6\frac{3}{7}$ $1\frac{1}{3} \times 2\frac{1}{4}$ $7\frac{1}{3} \div 1\frac{1}{10}$.	Fractions    <input data-bbox="1174 972 1230 1028" type="checkbox"/> <input data-bbox="1294 972 1350 1028" type="checkbox"/> <input data-bbox="1414 972 1469 1028" type="checkbox"/>
f) Simplify: $4(y - 8)$ $6 - (3x - 7)$. Factorise: $2x + 22$ $5x^2 - 30x$ $9y^2 + 12y$.	Brackets & Factors    <input data-bbox="1174 1155 1230 1211" type="checkbox"/> <input data-bbox="1294 1155 1350 1211" type="checkbox"/> <input data-bbox="1414 1155 1469 1211" type="checkbox"/>
g) Calculate the diameter of this circle if the circumference is 50cm. Also, calculate its area. <div style="text-align: center;">  </div> Give each of your answers to 3 significant figures.	Circles    <input data-bbox="1174 1321 1230 1377" type="checkbox"/> <input data-bbox="1294 1321 1350 1377" type="checkbox"/> <input data-bbox="1414 1321 1469 1377" type="checkbox"/>
h) The volume of this closed cube is 64cm^3 . Calculate its total surface area. <div style="text-align: center;">  </div>	Volume of Prisms    <input data-bbox="1174 1576 1230 1632" type="checkbox"/> <input data-bbox="1294 1576 1350 1632" type="checkbox"/> <input data-bbox="1414 1576 1469 1632" type="checkbox"/>
i) Change the subject of these formulae to x : $y = x + 2$ $v = 6x + 1$ $a = b - 2x$.	Changing the Subject    <input data-bbox="1174 1742 1230 1798" type="checkbox"/> <input data-bbox="1294 1742 1350 1798" type="checkbox"/> <input data-bbox="1414 1742 1469 1798" type="checkbox"/>
j) A card is picked at random from a pack. Calculate: P(Red) P(Queen) P(Ace or 2) P(not Clubs).	Probability    <input data-bbox="1174 1910 1230 1966" type="checkbox"/> <input data-bbox="1294 1910 1350 1966" type="checkbox"/> <input data-bbox="1414 1910 1469 1966" type="checkbox"/>

<p>k) Calculate the gradient of the line between the points C (1,2) and D(9,-3).</p>		<p>Gradients & Lines</p> <p>☹ ☺ ☺</p> <p><input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p>
<p>l) Calculate x.</p>		<p>Trigonometry</p> <p>☹ ☺ ☺</p> <p><input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p>
<p>m) 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) Which has the greater perimeter?</p>		<p>Quadrilaterals etc.</p> <p>☹ ☺ ☺</p> <p><input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p>
<p>o) Complete this shape so that it has half-turn symmetry:</p>		<p>Rotational Symmetry</p> <p>☹ ☺ ☺</p> <p><input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p>
<p>p) Solve:</p>	$4x - 17 = 19$ $9x + 7 = x + 7$	<p>Equations & Inequalities</p> <p>☹ ☺ ☺</p> <p><input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p>
<p>q) Dan and Jan split £60 between them in the ratio 2:3. How much do they each get?</p> <p>How much more would Jan get if that ratio changed to 1:3?</p>		<p>Ratio & Proportion</p> <p>☹ ☺ ☺</p> <p><input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p>
<p>r) Which of these shapes will tile?</p>		<p>Transformation</p> <p>☹ ☺ ☺</p> <p><input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p>