

**Maths Key Skills**

Name: ..... Date: .....

**Stage 7: Skill Check 9 - Answers**

Class/Group: .....

A: Number & Algebra		B: Proportion, Geometry & Measure		C: Statistics & Probability												
1. Insert one of these symbols in the box: = < > ≤ ≥	7:1 0.65 > 0.605	11. Reduce to its lowest form: 300g : 1.5kg	7:15 300:1500 <b>=1:5</b>	21. Give the probability of getting a letter 'l' from the word 'parallel'.	7:27 <b><math>\frac{3}{8}</math></b>											
2. Which is bigger? 0.7 or 65%	7:2 <b>0.7</b>	12. Divide £56 in a ratio of 5:2 Give the answer as a ratio.	7:16 <b>£40:£16</b>	22. List the elements in set $A \cap B$	7:28 <b>{a,c,f}</b>											
3. Give the LCM of 14 and 21.	7:3 <b>42</b>	13. Express £5 as a percentage of £4.	7:17 <b>125%</b>													
4. Insert one of these symbols in the box: = < > ≤ ≥	7:4 $\sqrt{1} = 1^3$	14. Shape A is translated $\begin{pmatrix} -5 \\ 0 \end{pmatrix}$ to B Draw B 	7:19													
5. Work out & simplify: $2\frac{1}{3} \times \frac{2}{3}$	7:6 $\frac{14}{9} = 1\frac{5}{9}$	15. Draw CD parallel to the line AB. 	7:20	23. A survey of garden bird was done. Complete the table to draw a pie chart:	7:29											
6. Work out: $(18 + 3) - (4 + 2) \times 3$	7:7 <b>21-6x3 =21-18 = 3</b>	16. Sketch the side view. 	7:21 	<table border="1"> <thead> <tr> <th>Type</th> <th>f</th> <th>angle</th> </tr> </thead> <tbody> <tr> <td>Blackbird</td> <td><b>4</b></td> <td><b>80°</b></td> </tr> <tr> <td>Blue tit</td> <td>5</td> <td>100°</td> </tr> <tr> <td>Thrush</td> <td><b>9</b></td> <td>180°</td> </tr> </tbody> </table>		Type	f	angle	Blackbird	<b>4</b>	<b>80°</b>	Blue tit	5	100°	Thrush	<b>9</b>
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7. Expand & simplify: $x(x - 3) + x(x + 5)$	7:10 $x^2 - 3x + x^2 + 5x$ <b>=2x<sup>2</sup>+2x</b>	17. The area of this trapezium is 24m <sup>2</sup> . Work out LENGTH? 	7:22 <b>8m</b>	24. Work out the <b>median</b> of the scores: 1, 3, 6, 7, 11, 12	7:30 $\frac{1}{2}(6+7)$ <b>=6.5</b>											
8. Evaluate: $a^2 - ab$ when $a = -3, b = -1$	7:11 <b>9-3=6</b>	18. Give the number of edges, vertices and faces of a pentagonal pyramid.	7:23 E=10 V=6 F=6													
9. Draw on the grid The graph of $y = -x$ . 	7:12	19. The volume of this cuboid is 200cm <sup>3</sup> . Find its height. 	7:24 <b>5cm</b>	25. Work out the <b>median</b> score.	7:30 $\frac{1}{2}(21+1)$ <b>=11<sup>th</sup> score</b>  <b>=9</b>											
10. Solve: $2(2x - 2) = 0$	7:13 $4x-4=0$ <b>x=1</b>	20. $x=42^\circ$ . Give the reason. 	7:25 <b>Corresponding angles are equal</b>													
Total (A)		Total (B)		Total (C)												
Test Total (A+B+C)		R (0-9)	Y (10-19)	G (20-25)												