

Maths Key Skills

Name: Date:

Stage 7: Skill Check 11 - Answers

Class/Group:

A: Number & Algebra		B: Proportion, Geometry & Measure		C: Statistics & Probability																
1. Insert one of these symbols in the box: = < > ≤ ≥	7:1 $0.9 > \frac{9}{100}$	11. Reduce to its lowest form: 1.5litres : 2litres	7:15 3:4	21. Give the probability of getting a letter 'e' from the word 'isosceles'.	7:27 $\frac{2}{9}$															
2. Which is bigger? $\frac{7}{10}$ or 7%	7:2 $\frac{7}{10}$	12. Divide £150 between A & B in a ratio of 5:1	7:16 A-£125 B- £25	22. List the elements of set A'	7:28 {d,e,i}															
3. Give the HCF of 24 and 18.	7:3 6	13. Express £4 as a fraction of £100.	7:17 1/25																	
4. Insert one of these symbols in the box: = < > ≤ ≥	7:4 $\sqrt[3]{1000} < 10^2$	14. Describe the transformation A to B	7:19 Enlargement Sf2 Centre X																	
5. Work out & simplify: $\frac{7}{8} \times 2\frac{2}{3}$	7:6 $\frac{56}{24} = \frac{7}{3} = 2\frac{1}{3}$	15. Mark the right angle on this triangle.	7:20	23. In the last Winter Olympics Netherlands won the medals:	7:29 $360 \div 24 = 15^{\circ}$															
6. Work out: $3^2 \times 2 - (8 + 5)$	7:7 18-13 =5	16. Sketch the front elevation	7:21	<table border="1"> <tr><td>Gold</td><td>8</td></tr> <tr><td>Silver</td><td>7</td></tr> <tr><td>Bronze</td><td>9</td></tr> </table>	Gold	8	Silver	7	Bronze	9	8x15⁰ =120⁰									
Gold	8																			
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7. Expand & simplify: $x(x + 8) - x(x + 5)$	7:10 x^2+8x-x^2-5x =3x	17. The area of this trapezium is 56m ² . Work out LENGTH?	7:22 5m	If the data was represented in a pie chart, what size angle would be 'Gold'?																
8. Evaluate: $2a^2 + ab$ when $a = 4, b = -3$	7:11 32-12=20	18. Name this solid	7:23 cylinder	24. Work out the median of the scores: 1, 3, 6, 11, 11, 12	7:30 $\frac{1}{2}(6+11)$ =8.5															
9. Draw the graph of $y = -1$	7:12	19. The volume of this cube is 8cm ³ . What is the length of each edge?	7:24 2cm	25. Work out the mean score.	7:30															
10. Solve: $2(2x - 5) = 0$	7:13 4x-10=0 4x=10 x=2.5	20. $x=125^{\circ}$. Give the reason.	7:25 Vertically opposite angles are equal	<table border="1"> <thead> <tr><th>Score</th><th>Frequency</th><th>fx</th></tr> </thead> <tbody> <tr><td>8</td><td>3</td><td>8x3=24</td></tr> <tr><td>9</td><td>6</td><td>9x6=54</td></tr> <tr><td>10</td><td>1</td><td>10x1=10</td></tr> <tr><td colspan="2" style="text-align: center;">$\Sigma f=10$</td><td>$\Sigma fx=88$</td></tr> </tbody> </table>	Score	Frequency	fx	8	3	8x3=24	9	6	9x6=54	10	1	10x1=10	$\Sigma f=10$		$\Sigma fx=88$	88÷10 =8.8
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Total (A)		Total (B)		Total (C)																
Test Total (A+B+C)		R (0-9)		Y (10-19)																
					G (20-25)															