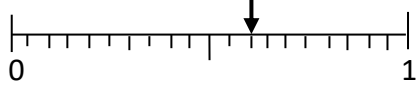
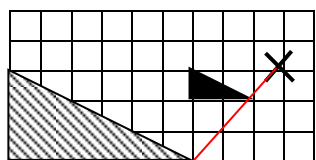
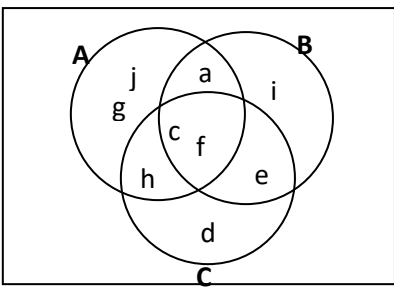
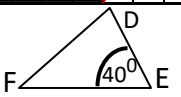
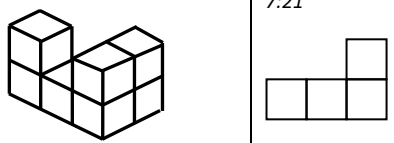
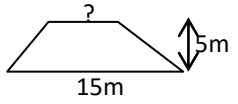
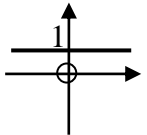
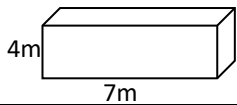
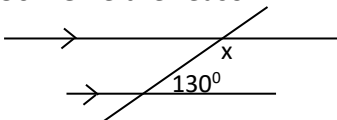


Maths Key Skills

Stage 7: Skill Check 10 - Answers

Name: Date:

Class/Group:

A: Number & Algebra		B: Proportion, Geometry & Measure		C: Statistics & Probability																
1. Insert one of these symbols in the box: = < > ≤ ≥	7:1 $0.7 = \frac{7}{10}$	11. Reduce to its lowest form: 1.2km : 400m	7:15 1200:400 3:1	21. Indicate the position of the probability of choosing a BOY from a class of 8 girls and 12 boys.	7:27															
2. Which is bigger? 0.4 or 40%	7:2 Same	12. Divide £1000 in a ratio of 2:3 Give the answer as a ratio.	7:16 £400:£600		{c, f}															
3. Give the LCM of 9 and 12.	7:3 36	13. Express £4 as a percentage of £5.	7:17 80%	22. List the elements of set $A \cap B \cap C$																
4. Insert one of these symbols in the box: = < > ≤ ≥	7:4 $\sqrt[3]{27} < 2^2$	14. Enlarge the shape sf3, Centre X 	7:19		{c, f}															
5. Work out & simplify: $2\frac{1}{3} \div \frac{2}{3}$	7:6 $\frac{21}{6} = 3\frac{3}{6} = 3\frac{1}{2}$	15. Mark $\angle DEF = 40^\circ$ 	7:20	23. Complete the table to draw a pie chart																
6. Work out: $(10 - 4) + 2^2 \times 3$	7:7 $6 + 2^2 \times 3 = 6 + 12 = 18$	16. Sketch the plan view 	7:21		<table border="1"> <thead> <tr> <th>Type of DVD</th> <th>f</th> <th>Angle</th> </tr> </thead> <tbody> <tr> <td>Crime</td> <td>6</td> <td>72°</td> </tr> <tr> <td>Sci-fi</td> <td>10</td> <td>120°</td> </tr> <tr> <td>Musical</td> <td>3</td> <td>36°</td> </tr> <tr> <td>Comedy</td> <td>11</td> <td>132°</td> </tr> </tbody> </table>	Type of DVD	f	Angle	Crime	6	72°	Sci-fi	10	120°	Musical	3	36°	Comedy	11	132°
Type of DVD	f	Angle																		
Crime	6	72°																		
Sci-fi	10	120°																		
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Comedy	11	132°																		
7. Expand & simplify: $x(x - 1) + x(x - 4)$	7:10 $x^2 - x + x^2 - 4x = 2x^2 - 5x$	17. The area of this trapezium is 60m ² . Work out LENGTH? 	7:22 9m	24. Work out the median of the scores: 1, 3, 6, 10, 11, 12	7:29															
8. Evaluate: $2a^2 - ab$ when $a = -3, b = -1$	7:11 18 - 3 = 15	18. Give the number of edges, vertices and faces of a triangular pyramid.	7:23 E=6 V=4 F=4		25. Work out the mean score.															
9. Give the equation of the graph. 	7:12 y=1	19. The volume of this cuboid is 84m ³ . Find its width. 	7:24 3m	<table border="1"> <thead> <tr> <th>Score</th> <th>Frequency(f)</th> <th>fx</th> </tr> </thead> <tbody> <tr> <td>6</td> <td>5</td> <td>5x6=30</td> </tr> <tr> <td>7</td> <td>3</td> <td>3x7=21</td> </tr> <tr> <td>8</td> <td>2</td> <td>2x8=16</td> </tr> <tr> <td colspan="2" style="text-align: center;">$\Sigma f = 10$</td> <td>$\Sigma fx = 67$</td> </tr> </tbody> </table>		Score	Frequency(f)	fx	6	5	5x6=30	7	3	3x7=21	8	2	2x8=16	$\Sigma f = 10$		$\Sigma fx = 67$
Score	Frequency(f)	fx																		
6	5	5x6=30																		
7	3	3x7=21																		
8	2	2x8=16																		
$\Sigma f = 10$		$\Sigma fx = 67$																		
10. Solve: $2(2x + 3) = 6$	7:13 $4x + 6 = 6$ x=0	20. $x=50^\circ$. Give the reason. 	7:25 Co-interior angles add up to 180°	25. Work out the mean score.	7:30 67 ÷ 10 = 6.7															
Total (A)		Total (B)			Total (C)															
Test Total (A+B+C)		R (0-9)		Y (10-19)	G (20-25)															

