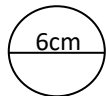
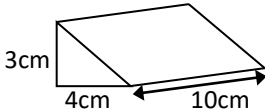
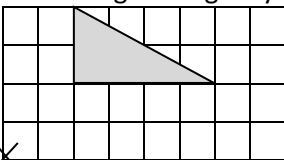


Maths Key Skills

Stage 8: Skill Check 1

Name: Date:

Class/Group:

A: Number & Algebra		B: Algebra, Proportion, Geometry & Measure		C: Statistics & Probability																
1. Work out: 0.2×0.3	8:1	11. Expand & simplify: $(x + 4)(x - 5)$	8:16	21. These are the probabilities of a spinner landing on each of its 4 colours <table border="1" style="margin: 5px;"><tr><td>Colour</td><td>Red</td><td>Black</td><td>Blue</td><td>Green</td></tr><tr><td>Probability</td><td>0.1</td><td>0.35</td><td></td><td>0.2</td></tr></table> Calculate the missing probability	Colour	Red	Black	Blue	Green	Probability	0.1	0.35		0.2	8:26					
Colour	Red	Black	Blue		Green															
Probability	0.1	0.35		0.2																
2. Write 80 as the product of its prime factors. Choose from the following: A. $2^2 \times 4 \times 5$ B. $2^4 \times 5$ C. $2^3 \times 10$	8:2	12. The ratio of boys: girls in a class is 2:3. Write the proportion of boys in the class as a fraction	8:17	22. Of the 80 pupils in Y7, 47 are boys. On Monday, 6 boys and 3 girls were late. What is the probability that a pupil chosen is a girl and not late?	8:27															
3. Round off 34.56m correct to 1 significant figure	8:3	13. Max needs 90g of sugar for 10 doughnuts. How much sugar will he need for 4 doughnuts?	8:18																	
4. Evaluate 2^4	8:4	14. A car bought for £550 was sold for 20% more. What price was it sold for?	8:19	23. A fair dice is rolled twice. What is the probability of rolling two sixes?	8:28															
5. Factorise $r^2 - 7r$	8:6	15. A car travels 50km in $\frac{1}{2}$ h. What was the speed?	8:20																	
6. Simplify $2p^2 \times 5p^5$	8:7	16. What is the sum of the interior angles of a hexagon?	8:21																	
7. Make 'p' the subject of the formula $t = 3p - 2$	8:8	17. Work out the perimeter of this circle in terms of π 	8:22	24. Estimate the mean weekly pocket money <table border="1" style="margin: 5px;"><thead><tr><th>Pocket money (£)</th><th>Frequency</th><th></th></tr></thead><tbody><tr><td>1-3</td><td>2</td><td></td></tr><tr><td>4-6</td><td>9</td><td></td></tr><tr><td>7-9</td><td>5</td><td></td></tr><tr><td>10-12</td><td>4</td><td></td></tr></tbody></table>	Pocket money (£)	Frequency		1-3	2		4-6	9		7-9	5		10-12	4		8:29
Pocket money (£)	Frequency																			
1-3	2																			
4-6	9																			
7-9	5																			
10-12	4																			
8. Solve $3(x - 2) = x + 8$	8:10	18. Work out the volume of this prism. 	8:23																	
9. What is the gradient of the graph with the equation $y = 3x - 5$	8:12	19. Enlarge triangle by sf $\frac{1}{2}$ centre X 	8:24	25. What correlation would you expect to see on a scatter graph showing the following two variables? <ul style="list-style-type: none">• Distance from school• Time spent travelling to school	8:30															
10. Give the nth term of the sequence 9 13 17 21 25 ...	8:15	20. Write down the 3-figure bearing for west direction	8:25																	
Total (A)		Total (B)		Total (C)																
Test Total (A+B+C)		R (0-9)	Y (10-19)		G (20-25)															