

# Maths Key Skills

# Stage 9: Skill Check 14

Name: .....

Date: .....

Class/Group: .....

A: Number & Algebra		B: Proportion, Geometry & Measure		C: Geometry & Measures, Statistics & Probability	
1. Write <b>1230</b> in standard form	9:1	11. Work out the <b>balance</b> on £2000 over 3 years at 11% compound interest	9:13	21. <b>At a conference all had a drink</b> 93 had coffee 47 had juice 25 had both Complete the Venn diagram & find how many were at the conference	9:27
2. Write <b>0.064</b> in standard form	9:1	12. With a 10% reduction the builder's bill came to £387. What was the original bill?	9:14		
3. <b>40</b> has been rounded to nearest whole Express the limits in the form $a \leq x < b$	9:2 $\leq x <$	13. Volume = 400cm <sup>3</sup> Mass 400g What is the Density?	9:15		
4. Solve: $x^2 - 17x + 70 = 0$	9:4	14. A recipe uses 5 cups of flour to 2 cups of sugar. How much sugar would be needed for 8 cups of flour?	9:16	22. A dice is rolled twice. Complete the tree diagram.	9:28
5. If $5x - 7 \geq -2$ , show the solution for <b>x</b> on the number line 	9:5	15. The two shapes are similar. Find <b>x</b> 	9:17		
6. Make 'y' the subject of the equation $2y + x = 2$	9:6	16. Work out the PERIMETER of a quarter-circle with a radius of 8cm (2sf)	9:18		
7. Solve the equation: $\frac{y+1}{2} + \frac{y-3}{3} = 2$	9:7	17. Work out the <b>curved</b> surface area of a cylinder with d = 6m & h = 3m (3sf)	9:20	24. Construct the perpendicular line from the point to the line. 	9:26
8. Is $x + y = 6$ parallel to $x - y = 6$ ?	9:8	18. Give the condition of congruency 	9:21	25. A telephone survey is conducted by choosing every 10 <sup>th</sup> person from the list. Give ONE disadvantage of this type of sampling technique.  ..... ..... .....	
9. Write the equation of this line 	9:9	19.  Work out length 'x' (to 1dp)	9:22		
10. Evaluate $2b^3 + b$ when $b = 3$	9:12	20. If $\cos 56^\circ = \frac{5}{x}$ , work out x (2sf)	9:23		
Total (A)		Total (B)		Total (C)	
Test Total (A+B+C)		R (0-9)		Y (10-19)	
				G (20-25)	