

# Maths Key Skills

Name: .....

Date: .....

# Stage 9: Skill Check 8

Class/Group: .....

A: Number & Algebra		B: Proportion, Geometry & Measure		C: Geometry & Measure, Statistics & Probability		
1. Write $6.4 \times 10^4$ as an ordinary number	9:1	11. Work out the <b>balance</b> on £20 over 10 years at 5% compound interest	9:13	21. Work out the $p(B \text{ or } C)$		9:27
2. Write $1.45 \times 10^{-1}$ as an ordinary number	9:1	12. A top cost £12.75 in a 25% off sale. Find its original value.	9:14			
3. 24 has been rounded to nearest whole. Express the limits in the form $a \leq x < b$	9:2	13. Mass = 56g Volume = 7cm <sup>3</sup> . What is the Density?	9:15			
4. Solve: $x^2 - x - 56 = 0$	9:4	14. Complete the table for INDIRECT proportion	9:16	22. Two coins are tossed. Complete the tree diagram		9:28
5. If $3x + 2 > 14$ , show the solution for $x$ on the number line	9:5	15. The two shapes are similar. Find $x$	9:17			
6. Make 'y' the subject of the equation $2x + 3y = 6$	9:6	16. Work out the perimeter of the semi-circle (to 3sf)	9:18	23. Use the tree diagram to work out the probability of TWO the same	9:28	
7. Solve the equation: $\frac{y}{2} - \frac{y}{3} = 2$	9:7	17. Work out the curved surface area of this cylinder (2sf)	9:20			
8. Write down the equation of a line parallel to $3x + y = 5$	9:8	18. Give the condition of congruency	9:21	24. Construct the perpendicular bisector of the line.	9:25	
9. Write the equation for $d$ in terms of $t$	9:9	19. Work out length 'x' (to 1dp)	9:22			
10. Evaluate $x^2 - 7x$ when $x = -5$	9:12	20. Complete the sentence ... $x = \frac{7}{10}$	9:23	25. A new leisure centre for the town is being planned. A survey of every 10 <sup>th</sup> person coming out of the old leisure centre is done to find out people's thoughts of the plans. Comment on this method of obtaining information.	9:29	
Total (A)		Total (B)		Total (C)		
Test Total (A+B+C)		R (0-9)		Y (10-19)		
				G (20-25)		