

Maths Key Skills

Stage 9: Skill Check 12

Name:

Date:

Class/Group:

A: Number & Algebra		B: Proportion, Geometry & Measure		C: Geometry & Measure, Statistics & Probability	
1. Write 457×10^3 in standard form	9:1	11. Work out the compound interest on £400 over 3 years at 4%	9:13	21. Of 100 people 70 drank coffee 37 drank tea 28 drank both Complete the Venn diagram	9:27
2. Write 25×10^{-3} in standard form	9:1	12. A 15% increase produced a heating bill of £1426. What was it before?	9:14	22. A marble is chosen from each bag. Complete: 	9:28
3. 16 has been rounded to nearest whole Express the limits in the form $a \leq x < b$	9:2 $\leq x <$	13. Density = $5g/cm^3$ Volume = $4cm^3$ What is the Mass?	9:15		
4. Solve: $x^2 - 10x - 39 = 0$	9:4	14. Which is correct? – Circle it A is proportional to B A is inversely proportional to B	9:16	23. From the Venn diagram, work out the probability of choosing a person at random who drank neither tea nor coffee	9:28
5. If $x - 4 \leq 4$, show the solution for x on the number line 	9:5	15. The two shapes are similar. Find x	9:17		
6. Make 'n' the subject of the equation $m(n - p) = q$	9:6	16. Work out the AREA of the semi-circle with a diameter of 14cm(2sf)	9:18	24. Construct the bisector of the angle ABC	9:25
7. Solve the equation: $\frac{y}{4} + \frac{3y}{8} = 2$	9:7	17. Work out the curved surface area of a cylinder with $r = 7m$ & $h = 4m$ (3sf)	9:20	25. For homework, Jack had to do a survey to find out the favourite type of restaurant. He asked his family. Comment on his method of gathering the data. 	9:29
8. Write down the equation of a line parallel to $3x + 2y = 6$	9:8	18. What additional information is needed for SAS congruency? 	9:21		
9. Give your interpretation of the circled point 	9:9	19. Work out length 'x' (to 1dp)	9:22	20. Complete the sentence $32^0 = \frac{8}{x}$	9:23
10. Evaluate $2x^2 + 3$ when $x = -5$	9:12	20. Complete the sentence $32^0 = \frac{8}{x}$	9:23		
Total (A)		Total (B)		Total (C)	
Test Total (A+B+C)		R (0-9)		Y (10-19)	
				G (20-25)	