Maths Key Skills

Stage 9: Skill Check 6

Name: .... Date: .... Class/Group: ....

A: Number & Algebra		B: Proportion, Geometry & Measure		C: Geometry & Measure, Statistics & Probability	
1. Write **8.12 x 10⁴** as an ordinary number	9:1	11. Work out the **balance** on £300 over 4 years at 5% compound interest	9:13	21. Work out the p(C only)	9:27
2. Write **6.5 x 10⁻²** as an ordinary number	9:1	12. A suit cost £220 with 20% off. Find original cost.	9:14		
3. 80 has been rounded to nearest 10 Express the limits in the form a ≤ x < b	9:2 ≤ x <	13. Volume = 5cm³ Density = 10.5g/cm³ What is the mass?	9:15		
4. Solve: $x^2 + 6x + 8=0$	9:4	14. Is the graph in Q9 in direct proportion?	9:16	22. The probability of passing Test 1 is 0.5 & Test 2 is 0.3. Complete the tree diagram.	9:28
5. If **2x - 5 ≤ 3**, show the solution for **x** on the number line	9:5	15. The two shapes are similar. Find x	9:17		
6. Make 'a' the subject of the equation $$S = \frac{a}{4} + 8u$$	9:6	16. Work out the perimeter of the ¼ circle (to 3sf) 5cm	9:18	23. Use the tree diagram to work out the probability of passing Test 1 but not Test 2	9:28
7. Solve the equation: $\frac{2x-1}{2} = 6$	9:7	17. Work out the curved surface area of this cylinder in terms of π r=7cm 10cm	9:20	24. Construct the perpendicular bisector of this line	9:25
8. Write down the equation of a line parallel to x + y = 6	9:8	18. Give the condition of congruency:	9:21		
9. Give the rate of change	9:9	19. Work out length 'x' (to 1dp)	9:22	25. A survey of people coming out of the cinema was conducted. They selected 10 men, 10 women and 10 children. Do you think this is OK? Give a reason for your choice. YES / NO – circle your choice Reason...	9:29
10. Evaluate $x^2 - 5x$ when x = -4	9:12	20. Complete the sentence $$... x = \frac{3}{7}$$	9:23		
Total (A)		Total (B)		Total (C)	
Test Total (A+B+C)		R (0-9)		Y (10-19)	G (20-25)