Maths Key Skills

Stage 9: Skill Check 1

Name:		Date:		Class/Group:	
A: Number & Algebra		B: Proportion, Geometry & Measure		C: Geometry & Measures, Statistics & Probability	
Write 38000 in standard form notation.	9:1	11. Work out the simple interest on £400 over 2 years at 8% interest.	9:13	21. Out of 40 students, 14 take Biology and 29 take Chemistry, 2 take neither. Complete the Venn diagram.	9:27
2. Write 0.0045 in standard form notation.	9:1	12. In a 60% off sale, a jumper is priced at £16.80. Find the original price.	9:14	B(14) C(29)	
3. 30m has been rounded to 1sf. Express the limits in the form a ≤ x < b	9:2 ≤ x <	13. What is the formula to find density?	9:15 D =		
4. Factorise: $x^2 + 7x + 6$	9:4	14. The time taken to dig a hole is indirectly proportional to the number of people doing the digging. TRUE or FALSE?	9:16	22. The probability a team will win cricket is 0.7, & of winning football is 0.9. Complete the tree diagram.	9:28
5. Solve: $3x-1 \ge 8$ and show the solution on the number line. -1 0 1 2 3 4 5 6 7 8 9	9:5	15. The two shapes are similar. Find x 2.7cm 2cm 3cm	9:17	Cricket Football 0.9 Win Lose Win Lose Lose	
6. Make 'y' the subject of the equation: 2y - 3x = 8	9:6	16. In multiples of π , work out the perimeter of a semicircle of diameter 10cm.	9:18	23. Use the tree diagram to work out the probability that the team will lose both games	9:28
7. Solve the equation: $\frac{x}{3} + 5 = 6$	9:7	17. Work out the curved surface area of this cylinder in terms of π $5cm$ $8cm$	9:20	24. Construct the bisector of the angle	9:25
8. Write down the equation of a line parallel to: y = 2x - 5	9:8	18. Give the condition of congruency:	9:21		
9. Give the rate of change 30 \$25 \$25 \$20 \$215	9:9	19. 3m a 4m	9:22	25. A coin is tossed 10 times. The result was 8 Heads and 2 Tails. Do you think the coin is biased? Give a reason to support your decision	9:29
15 15 10 10 10 10 10 10 10 10 10 10 10 10 10		To find 'a' choose one calculation: $\sqrt{4^2 + 3^2} \text{OR} \sqrt{4^2 - 3^2}$		YES or NO or DON'T KNOW - circle your response. Reason	
10. Evaluate: a ² – a when a = - 5	9:12	20. If $\tan 32^0 = \frac{x}{8}$, work out x (1sf)	9:23		
Total (A)		Total (B)		Total (C)	
Test Total (A+B+C)		R (0-9)	Υ	(10-19) G (20-25)	-