Maths Key Skills

Stage 9: Skill Check 13

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Name:	Date:		C	Class/Group:
A: Number & Algebra		B: Proportion, Geometry & Measure		C: Geometry & Measures, Statistics & Probability
1. Write 34 x 10 ⁵ in standard form	9:1	11. Work out the interest on £700 over 5 years at 8% simple interest	9:13	21. Of 50 people 9:27 31 liked football Football
2. Write 44 x 10⁻³ in standard form	9:1	12. After VAT of 20% was added, the bill was £540. What was the bill before VAT?	9:14	20 liked tennis 3 liked both
3. 23 has been rounded to 2sf Express the limits in the form $a \le x < b$	9:2 ≤x<	13. Density = 140kg/m ³ Mass 420kg What is the Volume?	9:15	Complete the Venn diagram
4. Factorise: y ² – 2y - 35	9:4	14. 5 men took 14 days to do a project. How many men would be able to do it in 10 days?	9:16	22. A coloured bead is chosen from each bag. Complete: Bag A Bag B
5. If 0 < 3 x ≤ 9 , show the solution for x 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 x 5cm 16cm	9:17	3/8 Green Yellow Green Yellow Yellow Yellow Yellow
6. Make 'y' the subject of the equation 5x + 2y = 10	9:6	16. Work out the PERIMETER of the semi- circle with a diameter of 14cm(2sf)	9:18	23. From the Tree diagram work out the probability that 9:28 two the same were chosen
7. Solve the equation: $\frac{y-1}{3} + \frac{2y+1}{4} = 2$	9:7	17. Work out the <u>curved</u> surface area of a cylinder with d = 3m & h = 5m (3sf)	9:20	24. Construct the perpendicular bisector of AC. A 9:25
8. Is y = 3x + 2 parallel to y – 5 = 3x?	9:8	18. These triangles may not be congruent-Why?	9:21	C B
9. Work out the gradient of the line – give units Babysitting charges $\begin{array}{c} & & & & & & & & & & & & & & & & & & &$	9:9 9:12	19. 7 cm Work out length 'x' (to 1dp) 20. If cos x = 2 , work out angle x (2sf)	9:22	25. A dice is rolled 30 times. The results are: Score Frequency 1 3 2 5 3 11 4 2 5 4 6 5 Does this mean the dice is biased? Give a reason. YES or NO – circle your choice
· · ·		7		Reason
Total (A)		Total (B)		Total (C)
Test Total (A+B+C)				(10-19) G (20-25)