Maths Key Skills

Stage 9: Skill Check 8 - Answers

Name: Date: Cl				ass/Group:		
A: Number & Algebra B: Proportion, Geometry & Measure				C: Statistics & Probability		
1. Write 6.4x10 ⁴ as an ordinary number	9:1	11. Work out the balance on £20 over 10	9:13	21. Work out the		9:27
	64 000	years at 5% compound interest	£32.58	p(B or C)	$\begin{bmatrix} B \\ 3 \\ 6 \end{bmatrix} 4 \begin{bmatrix} C \\ 4 \end{bmatrix}$	13
2. Write 1.45 x 10⁻¹ as an ordinary number	9:1 0.145	12. A top cost £12.75 in a 25% off sale. Find its original value.	9:14 £17		7	20
3. 24 has been rounded to nearest whole Express the limits in the form $a \le x < b$	<i>9:2</i> 23.5≤x<24.5	13. Mass=56g Volume = 7cm ³ What is the Density?	9:15 56 ÷7=8g/cm ³			
4. Solve: $x^2 - x - 56 = 0$	^{9:4} x=8or-7	14. Complete table for INDIRECT proportion x 2 4 8 16 y 64 32 16 8	9:16	22. Two coins are tossed	I. Complete the tree diagram	9:28
5. If $3x + 2 > 14$, 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 2.5cm x 11cm	9:17 Sf=7.5÷2.5 =3 X=11÷3 = 3²⁄ 3	<u>1/7</u> HE/	$\begin{array}{c ccccc} & & & & HT \\ \hline 1/2 & TAIL & HT \\ \hline 1/2 & HEAD & TH \\ \hline 1/2 & TAIL & TT \\ \hline 1/2 & TAIL & TT \\ \hline \end{array}$	
6. Make 'y' the subject of the equation 2x + 3y = 6	9:6 y= <u>6-2x</u> 3	16. Work out the perimeter of the semi-circle (to 3sf)	9:18 Пx3÷2 + 3 = 7.71cm	23. Use the tree diagran TWO the same	n to work out the probability of	9:28 ½ x½ + ½x½ = ½
7. Solve the equation: $\frac{y}{2} - \frac{y}{3} = 2$	9:7 y=12	17. Work out the curved surface area of this cylinder(2sf)	9:20 2xπx1.5x7 =66cm	24. Construct the per the line.	pendicular bisector of	9:2
8. Write down the equation of a line parallel to3x + y = 5	9:8 y=-3x±c y+3x = c	18. Give the condition of congruency	9:21 AAS		X	
9. Write the equation for d in terms of t Graph of distance horse galloped in 20min	^{9:9} d=3/4 t	19. Work out length 'x' (to 1dp)	9:22 √(4 ² + 4 ²) = 5.7cm	25. A new leisure centre for the town is being planned. A survey of every 10 th 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
10. Evaluate $x^2 - 7x$ when $x = -5$	9:12 25+35 =60	20. Complete the sentence $\sin x = \frac{7}{10}$ 7 10	9:23			
Total (A)		Total (B)	Total (C)			
Test Total (A+B+C)		R (0-9)	Y (10-19)		G (20-25)	