Maths Key Skills

Stage 10: Skill Check 2

Waths Key Skills				Stage 10. Skill Check 2	
				Class/Group:	
A: Number & Algebra		B: Algebra, Proportion, Geometry & Measure		C: Geometry & Measure, Statistics & Probability	
1. Write the answer in standard form (4 x 10 ³) ÷ (8 x 10 ⁵⁾	10:1	11. What is the distance travelled in last 15s? $ \begin{array}{c} 20\\ 15\\ 15\\ 0\\ 0\\ 0\\ 10\\ 20\\ 30\\ 40\\ time in seconds \end{array} $	10:13	21. A garden plot is 40m ² . What would be the area of a plot with double the dimensions?	10:25
				22. The angles marked with the letter 'a' are equal. Give the reason	10:19
2. Estimate to 1dp the answer to: $\sqrt[3]{70}$	10:2	12. What inequality is represented here?	10:14	23. A box has 3 dark and 4 milk chocolates. What is the probability of picking out 2 dark chocolates?	10:28
		$\begin{array}{c} 2\\1\\0&1&2&3&4 \end{array}$		24. Work out the inter-quartile range from this graph	10:29
3. Evaluate: 8 ^{1/3}	10:3	13. Find the nth term of this sequence: 11, 17, 27, 41, 59	10:15	80	
4. Convert the recurring decimal to a fraction: 0.39	10:4	14. Write down the first 3 terms of a geometric sequence which has a first term of 3 and a commatio 2.			
5. With 6 starters, 5 mains & 4 desserts, how many different 3 course meals are possible?	10:5	15. Work out the balance for £4500 invest for 2 years at 4% per annum compound interest	ed 10:17	comulative frequency	
6. Expand: (y+3)(y+1) ²	10:6	16. $x = 4, y = 8$ Find an equation for y in terms of x if y is directl proportional to x^2	у 10:18	0 5 10 15 20 25 30 35	
7. Factorise: 2x ² -5x + 3	10:7	17. Give the length of arc radius 4cm & angle 60° in terms of π	10:21	time in minutes	
8. Give the slope(gradient) of a line perpendicular to: $y = 5 - 2x$	10:8	18. Give the area of sector radius 4cm & angle 60° in terms of π	10:22		
9. Work out the equation of a line passing through (1,5) and (2, 7)	10:9	19. Give the surface area of the sphere of radius 6cm in terms of π (SA=4 π r ²)	10:23	25. Use the graph in Q24 to draw a box plot on the grid below. The lowest time was 5min & the highest 28min	10:30
10. Work out the roots of the quadratic graph with the equation $x^2 - 3x - 4 = 0$	10:12	20. Give the volume of the sphere of radius 6cm in terms of π (V = $\frac{4}{3}\pi r^3$)	10:24	0 5 10 15 20 25 30 35	
Total (A)		Total (B)		Total (C)	
Test Total (A+B+C)	İ	R (0-9)		Y (10-19) G (20-25)	