## Maths Key Skills

## Stage 10: Skill Check 3

Maths Rey Skills		Stage 10. Skill Check S						
Name:	<u></u>	. Date:		Class/Gro	up:			
A: Number & Algebra		B: Algebra, Proportion, Geometry & Measure			C: Geometry & Measure, Statistics & Probability			
1. Write the answer in standard form $(3 \times 10^4) + (2 \times 10^5)$	10:1	11. Find the distance travelled betwe	en 10 & 25s?	10:13		ume of 300cm <sup>3</sup> . What is the corresponding lengths of it?	volume of	10:26
		$ \begin{array}{c}                                     $			<b>22.</b> The angle a = 72 <sup>0</sup>	Give the reason		10:19
2. Estimate the value of 2.34 <sup>5</sup>	10:2	12. What inequality is represented here?	ere?	10:14	picking out 2 milk choco		bbability of	10:28
		$\begin{array}{c} 3\\2\\1\\0&1&2&3\end{array}$	4		45 40	n from this graph	*	10:29
3. Evaluate: 25 <sup>-1/2</sup>	10:3	13. Find the nth term of this sequent 0, 3, 8, 15. 24	ce:	10:15	≥ 35 -			
4. Convert the recurring decimal to a fraction: <b>0.</b> 7	10:4	14. Find the 5 <sup>th</sup> term of the geometric 2, -6, 18,	c sequence:	10:16	35			
5. With 8 red balls in bag 1 & 12 blue balls in bag 2, how many ways are there for choosing a red and a blue?	10:5	15. Black tea has 56mg of caffeine caffeine decreases in the body at of 15% per hour. How much is left	a rate 闘	10:17	20			
6. Expand: (x+2) <sup>3</sup>	10:6	16. $\mathbf{x} = 5, \mathbf{y} = 20$ Find an equation for y in terms of inversely proportional to $x^2$	x if y is	10:18	<b>3</b> 10 <b>.</b>			
7. Factorise: $4x^2 - 9$	10:7	17. Give the length of arc radius 3 $120^{0}$ in terms of $\pi$	cm & angle	10:21	0 10	20 30 40	50	
8. Give the slope(gradient) of a line perpendicular to:2y=3x-8	10:8	18. Give the area of sector radius 3cr & angle $120^{\circ}$ in terms of $\pi$	n 🔛	10:22		time in min		
9. Work out the equation of a line passing through (3,4) & (5,8)	10:9	19. Give the curved surface area of a of radius 3cm & slant height 5cm in term (CSA = $\pi$ rl) I=slant height	10:23	25. Use the graph in Q23 to draw a box plot on the grid below. The lowest time was 5min & the highest 42min		10:30		
10. Work out the roots of the quadratic graph with the equation: $x^2 + 2x - 8 = 0$	10:12	20. Give the volume of a cone of radius 2cm & perpendicular height 6cm in terms of $\pi$ . (V= $\frac{3}{3}\pi r^2$ h) h=perpendicular height		10:24	0 10 50	20 30 40		
Total (A)		Total (B)		Total (C)				
Test Total (A+B+C)		R (0-9)		Y (10-19)		G (20-25)		
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