Name: \_\_\_\_\_ Date: \_\_\_\_ Class/Group: \_\_\_\_

Name:		Date:		Class/Group:		
A: Number & Algebra		B: Algebra, Proportion, Geometry & Measure		C: Geometry & Measure, Statistics & Probability		
1. Write the answer in standard form: $(6 \times 10^5) - (1 \times 10^4)$	10:1	11. Find the total distance travelled.	10:13	21. A shape has an area of 16cm <sup>2</sup> . What is the area of a shape which is ½ the corresponding lengths of it?  22. The angle a = 104° Give the reason		10:25
		10 10 20 30 40 time in seconds			52°	
2. Estimate to 1dp the value of:	10:2	12. What inequality is represented here?	10:14	_	nite balls. Work out the probability that if 2 are	10:28
$\sqrt[3]{85}$		4		chosen at random, they will both be black		
		3		24. Work out the inter-quartile rang	ge from this graph	1
		2		45		
		1		40 -	*	10:29
				چ 35 -		20.23
3 Evaluate: 9 <sup>-½</sup>	10:3	0 1 2 3 4  13. Find the nth term of this sequence:	10:15	35 - 30 - 30 - 30 - 30 - 30 - 30 - 30 -		
3. Evaluate: $9^{-72}$	10.5	2, 6, 12, 20, 30, 42	10.13	25 -		
4. Convert the recurring	10:4	14. Find the 5 <sup>th</sup> term of the geometric sequence	e: <i>10:16</i>	. <u>\$</u> 20 -	*	
decimal to a fraction: $0.628$		2, 2√3, 6,		15 -		
5. How many different labels can be made using a letter & a	10:5	15. Espresso coffee contains 75mg of caffeine.	10:17		*	
number using letters A,B,C,D &		In the body its levels decrease by 15% per hour. How much is left after 4h?		5		
numbers 0,1,2,3,4,5,6?				0 10	20 30 40 50	
6. Expand: (y+3)(y+1)(y-1)	10:6	16. $x = 3$ , $y = 18$	10:18	time in min		
		Find an equation for y in terms of x if y is directly proportional to x <sup>2</sup>	У			
7. Factorise: 2x <sup>2</sup> – 7x + 6	10:7	17. Give the length of arc radius 3cm & angle 40 terms of $\boldsymbol{\pi}$				
8. Give the gradient of a line perpendicular to: $y = \frac{1}{3}x - 1$	10:8	18. Give the area of sector radius 3cm & angle $40^0$ in terms of $\pi$	10:22	25. Estimate the inter-quartile range from this box plot		10:30
9. Work out the equation of	10:9	19. Give the curved surface area of a cone	10:23	<u> </u>	$ \longrightarrow $	
a line passing through (2,1)		of r= 6cm & slant height 7cm in terms of $\pi$ (CSA = $\pi$ rl) l=slant height		_ '	·	
& (-1,-8)  10. Work out the roots of the	10:12		10:24	0 10 20 30 40	50 60 70 80 90 100	
quadratic graph with the equation $x^2 + x - 2 = 0$		20. Give the volume of a cone of radius 8cm & perpendicular height 8cm in terms of π. (V= $\frac{1}{2}$ πr²h) h=perpendicular height		Test Score (%)		
Total (A)		Total (B)		Total (C)		
Test Total (A+B+C)		R (0-9)		Y (10-19) G (20-25)		