Name: Date:

Date:

Class/Group:

A: Number & Algebra		B: Algebra, Proportion, Geometry & Measure		C: Geometry & Measure, Statistics & Probability	
1. Write the answer in standard form (5 x 10 ⁴) x (6 x 10 ⁹)	10:1	11 What is the distance travelled in the 1st 10sec		21. The measurements of a box are doubled. What happens to its surface area? 22. Indicate 2 angles that you know are equal	10:25
2. Estimate to 1dp the answer to: $\sqrt{29}$	10:2	12. What inequality is represented here?	10:14	23. 2 blue and 3 red marbles are in a bag. What is the probability of picking out 2 RED marbles together? 24. Work out the inter-quartile range from this graph	10:29
3. Evaluate: 9 ^{1/2}	10:3	1 0 1 2 3 4 13. Find the nth term of this sequence:	10:15	35 30 25 25	
4. Convert the recurring decimal to a fraction: 0.4	10:4	3, 6, 11, 18, 27 14. Write down the first 3 terms of a geometric sequence which has a first term of 1 and a commodity.		25 - 15 - 20 - 20 - 20 - 20 - 20 - 20 - 20 - 2	
5. How many ways can a boy and a girl be chosen from a group of 6 boys and 4 girls?	10:5	15. The value of a car depreciates by 35% per your work out the current value of a car bought 2 years ago for £20000.	ear. 10:17		
6. Expand: (x+2)(x+3)(x+4)	10:6	16. x = 4 when y = 8 Find an equation for y in terms of x , if y is direct proportional to x		20 22 24 26 28 30 32 34 36 38 40 42 Length(cm)	
7. Factorise: $2x^2 + 9x + 10$	10:7	17. Give the length of arc radius 7cm & angle 80 terms of $\boldsymbol{\pi}$) ⁰ in 10:21		
8. Give the slope(gradient) of a line perpendicular to: $y = 4x + 2$	10:8	18. Give the area of sector radius 7cm & angle 8 in terms of $\boldsymbol{\pi}$		25. Use the graph in Q24 to draw a box plot on the grid below. The lowest length was 21cm & the highest 38	10:30
9. Work out the equation of a line joining (0, 1) and (1, 3)	10:9	19. Give the surface area of the sphere of radiu 3cm in terms of π $$ (SA=4 $\pi r^2)$			$\mid X \mid$
10. Work out the roots of the quadratic graph with the equation: $x^2 - x - 6 = 0$	10:12	20. Give the volume of the sphere of radius 3cm terms of π (V = $\frac{4}{2}\pi r^3$)	n in 10:24	20 22 24 26 28 30 32 34 36 38 40 42	
Total (A)		Total (B)		Total (C)	
Test Total (A+B+C)		R (0-9)	,	((10-19) G (20-25)	•