

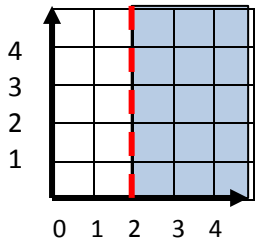







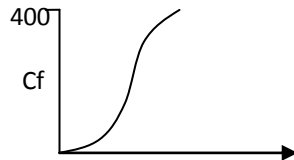



Name \_\_\_\_\_

Date \_\_\_\_\_

Class \_\_\_\_\_

Section A: Numbers & calculating		Section B: Algebra & Shape, space & measures		Section C: Using and applying	
8.1 1. Write $\frac{11}{15}$ as a recurring decimal 		8.4 11. Factorise: $x^2 + 2x + 1$		21. <b>Linear-Quadratic-Cubic-Reciprocal</b> Which type of graph is represented by this equation? $Y = 2x^3 - 5x^2$	
8.1 2. Write 0.5 as a fraction		8.4 12. Factorise: $x^2 - 16y^2$			
8.2 3. Work out the balance for £1500 invested for 3 years at 6.5% per annum 		8.5 14. Multiply & simplify: $(x + 2)(5x - 3)$		22. What inequality is represented here? 	
8.2 4. The value of a mobile depreciates by 40% per year. Work out the current value of a mobile bought 3 years ago for £225. 		8.5 14. Multiply & simplify: $(2a - 3)^2$			
8.2 5. In a '60% off' sale, an outfit was £144. Work out the original price. 		8.6 15. Make r the subject of the formula: $S = r^2 - t^2$		23.  P(Jack is late to school any day) = 0.6 What is the probability that Jack will be late 2 days running?	
8.2 6. A fuel bill has increased by 18% to £141.60. Work out the original cost. 		8.6 16. Make c the subject of the formula: $a^2 = b^2 - c^2$			
8.3 7. Write 0.056 in standard form:		8.7  17. $v = \sqrt{u^2 + 2as}$ Find v when $u = 16$ $a = 8$ & $s = 33$		24. Alf & Amy buy tickets in a raffle $P(\text{Alf wins 1st prize}) = 0.28$ $P(\text{Amy wins 1st prize}) = 0.02$ What is the probability that Alf or Amy win 1st prize?	
8.3 8. Write $4.651 \times 10^6$ as an ordinary number		8.7 <b>Give your answer correct to 3sf</b>  18. $v = \sqrt{u^2 + 2as}$ Find v when $u = 9.1$ $a = -4.7$ & $s = 3.04$			
8.3 9. Work out $(4 \times 10^3) + (6 \times 10^4)$ Give your answer in standard form		8.12  19. If $\tan 18^\circ = \frac{x}{12}$ , find x (3sf)		25. Show on the cumulative frequency graph how to take the inter-quartile range reading 	
8.3 10. Work out $(4.32 \times 10^{-3}) - (4.28 \times 10^{-5})$ Give your answer in standard form 		8.13 LENGTH or AREA or VOLUME 20. Which measure does this expression represent: $a^2b + c^3$			
Total (A)		Total (B)		Total (C)	
Test Total (A+B+C)		R (0-9)	Y (10-19)	G (20-25)	