

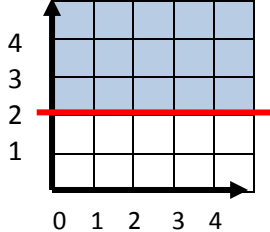






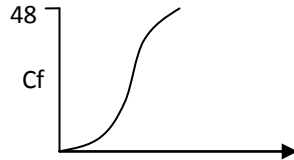



Name \_\_\_\_\_

Date \_\_\_\_\_

Class \_\_\_\_\_

Section A: Numbers & calculating		Section B: Algebra & Shape, space & measures		Section C: Using and applying	
8.1 1. Write $\frac{13}{15}$ as a recurring decimal 		8.4 11. Factorise: $x^2 + 14x + 24$		21. <b>Linear-Quadratic-Cubic-Reciprocal</b> Which type of graph is represented by this equation? $y = 3x - 2x^2$	
8.1 2. Write 0. $\dot{1}$ as a fraction		8.4 12. Factorise: $25x^2 - y^2$			
8.2 3. Work out the balance for £1500 invested for 4 years at 5.4% per annum 		8.5 14. Multiply & simplify: $(2x - 2)(4x + 3)$		22. What inequality is represented here? 	
8.2 4. The value of a caravan depreciates by 12% per year. Work out the current value of a caravan bought 3 years ago for £14000. 		8.5 14. Multiply & simplify: $(2a + 1)^2$			
8.2 5. In a '80% off' sale, an iron was £13. Work out the original price. 		8.6 15. Make t the subject of the formula: $a = \frac{t}{b} - st$		23.  $P(1^{\text{st}} \text{ traffic lights are RED}) = 0.3$ $P(2^{\text{nd}} \text{ traffic lights are RED}) = 0.4$ What is the probability that both are RED?	
8.2 6. A fuel bill has increased by 18% to £147.50. Work out the original cost. 		8.6 16. Make r the subject of the formula: $A = 4\pi r^2$			
8.3 7. Write 85700 in standard form:		8.7 17. $d = \sqrt{a^2 + b^2 + 2ab}$ Find d when $a = 2$ & $b = 3$		24. Max rolls 2 dice $P(\text{the total is 7}) = 0.2$ $P(\text{the total is 5}) = 0.11$ What is the probability that Max rolls 2 dice and gets totals of 5 or 7?	
8.3 8. Write $3.1 \times 10^{-1}$ as an ordinary number		8.7 <u>Give your answer correct to 3sf</u>  18. $d = \sqrt{a^2 + b^2 + c^2}$ Find d when $a = 2$ $b = 3$ & $c = 4$			
8.3 9. Work out $(7 \times 10^6) - (3 \times 10^3)$ Give your answer in standard form		8.12 19. If $\tan 18^\circ = \frac{12}{x}$ , find x (3sf) 		25. Show on the cumulative frequency graph how to take the median reading 	
8.3 10. Work out $(7.28 \times 10^8) + (3.64 \times 10^6)$ Give your answer in standard form 		8.13 LENGTH or AREA or VOLUME 20. Which measure does this expression represent: $a^3 \div a^2$			
Total (A)		Total (B)		Total (C)	
Test Total (A+B+C)		R (0-9)	Y (10-19)	G (20-25)	