

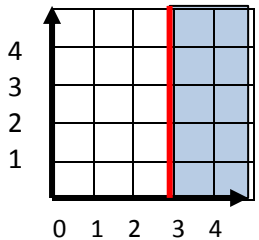







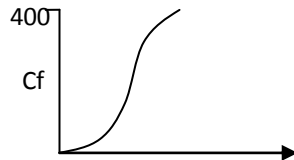



Name \_\_\_\_\_

Date \_\_\_\_\_

Class \_\_\_\_\_

Section A: Numbers & calculating		Section B: Algebra & Shape, space & measures		Section C: Using and applying	
8.1 1. Write $\frac{7}{15}$ as a recurring decimal 		8.4 11. Factorise: $a^2 - 2a - 15$		21. <b>Linear-Quadratic-Cubic-Reciprocal</b> Which type of graph is represented by this equation? $y = \frac{10}{x}$	
8.1 2. Write $0.\dot{7}$ as a fraction		8.4 12. Factorise: $4x^2 - 9y^2$			
8.2 3. Work out the balance for £600 invested for 5 years at 7.5% per annum 		8.5 14. Multiply & simplify: $(3x - 2)(2x - 5)$		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 £124. 		8.5 14. Multiply & simplify: $(2a + 3)^2$			
8.2 5. In a '60% off' sale, an outfit was £86. Work out the original price. 		8.6 15. Make r the subject of the formula: $S = r^2 - 2t$		23.  $P(\text{Jack is late to school any day}) = 0.1$ What is the probability that Jack will be late 2 days running?	
8.2 6. A fuel bill has increased by 16% to £139.20. Work out the original cost. 		8.6 16. Make b the subject of the formula: $a^2 = b^2 - c^2$			
8.3 7. Write 280 in standard form:		8.7 17. $v = \sqrt{u^2 + 2as}$ Find v when $u = 20$ $a = 6$ & $s = 52$ 		24. Alf & Amy buy tickets in a raffle $P(\text{Alf wins 1st prize}) = 0.7$ $P(\text{Amy wins 1st prize}) = 0.12$ What is the probability that Alf or Amy win 1st prize?	
8.3 8. Write $5.6 \times 10^{-4}$ as an ordinary number		8.7 <b>Give your answer correct to 3sf</b>  18. $v = \sqrt{u^2 + 2as}$ Find v when $u = 2.4$ $a = 3.2$ & $s = 5.25$			
8.3 9. Work out $(5 \times 10^{-5}) \times (2 \times 10^4)$ Give your answer in standard form		8.12 19. If $\tan x^\circ = \frac{12}{5}$ , find x (3sf) 		25. Show on the cumulative frequency graph how to take the upper quartile reading 	
8.3 10. Work out $(6.72 \times 10^{-3}) + (2.84 \times 10^{-5})$ Give your answer in standard form 		8.13 LENGTH or AREA or VOLUME 20. Which measure does this expression represent: $a^2 + ab + 3c^2$			
Total (A)		Total (B)		Total (C)	
Test Total (A+B+C)		R (0-9)	Y (10-19)	G (20-25)	