
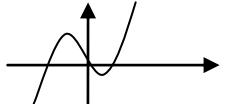

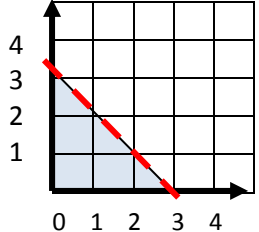






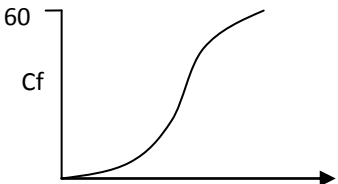



Name \_\_\_\_\_

Date \_\_\_\_\_

Class \_\_\_\_\_

Section A: Numbers & calculating		Section B: Algebra & Shape, space & measures		Section C: Using and applying	
8.1 1. Write $\frac{5}{6}$ as a recurring decimal 		8.4 11. Factorise: $x^2 - 6x + 8$		21. <b>Linear-Quadratic-Cubic-Reciprocal</b> Which function is represented by this graph? 	
8.1 2. Write 0.23 as a fraction		8.4 12. Factorise: $x^2 - 81$			
8.2 3. Work out the balance for £5000 invested for 5 years at 7% per annum 		8.5 14. Multiply & simplify: $(x - 2)(2x + 1)$		22. What inequality is represented here? 	
8.2 4. The value of a car depreciates by 18% per year. Work out the current value of a car bought 4 years ago for £20000. 		8.5 14. Multiply & simplify: $(2x - 7)^2$			
8.2 5. In a '20% off' sale, a coat was £120. Work out the original price. 		8.6 15. Make u the subject of the formula: $v^2 = u^2 + 2as$		23. On a spinner: $P(3) = \frac{2}{5}$ and the $p(4) = \frac{1}{5}$  What is the probability of getting 3 or 4	
8.2 6. The cost of a lamp has increased by 30% to £65. Work out the original price. 		8.6 16. Make y the subject of the formula: $A = xy + yz$			
8.3 7. Write 0.0028 in standard form:		8.7 17. $S = \frac{u^2 + v^2}{2a}$ Find S when, $u = -3$ $v = -1$ $a = 5$		24. A courgette seed and a pumpkin seed are planted. $P(\text{courgette seed germinates}) = \frac{1}{5}$ $P(\text{pumpkin seed germinates}) = \frac{3}{4}$ What is the probability that BOTH seeds germinate?	
8.3 8. Write $4.2 \times 10^4$ as an ordinary number		8.7 18. $D = ut + kt^2$ Find D when $u = 20$  $t = \frac{3}{5}$ $k = -5$			
8.3 9. Work out $(9 \times 10^7) \div (3 \times 10^4)$ Give your answer in standard form		8.12 19. If $\sin x = \frac{3}{4}$ , find x (3sf) 		25. Show on the cumulative frequency graph how to take the lower quartile reading 	
8.3 10. Work out $(6.2 \times 10^5) \times (3.8 \times 10^7)$  Give your answer in standard form		8.13 LENGTH or AREA or VOLUME 20. Which measure does this expression represent: <b><math>5a + 6b</math></b>			
Total (A)		Total (B)		Total (C)	
Test Total (A+B+C)		R (0-9)	Y (10-19)		G (20-25)