
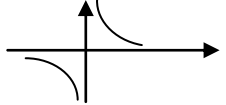

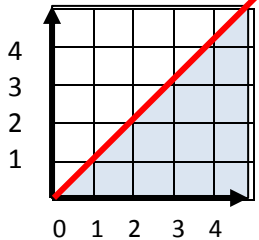







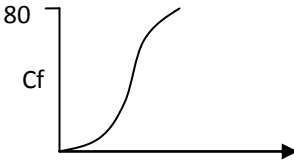



Name \_\_\_\_\_

Date \_\_\_\_\_

Class \_\_\_\_\_

Section A: Numbers & calculating		Section B: Algebra & Shape, space & measures		Section C: Using and applying	
8.1 1. Write $\frac{1}{9}$ as a recurring decimal 		8.4 11. Factorise: $a^2 + 8a - 20$		21. <b>Linear-Quadratic-Cubic-Reciprocal</b> Which function is represented by this graph? 	
8.1 2. Write 0.39 as a fraction		8.4 12. Factorise: $m^2 - 144$			
8.2 3. Work out the balance for £2400 invested for 10 years at 5% per annum 		8.5 14. Multiply & simplify: $(2a - 3)(2a - 1)$		22. What inequality is represented here? 	
8.2 4. The value of a bike depreciates by 35% per year. Work out the current value of a bike bought 2 years ago for £600. 		8.5 14. Multiply & simplify: $(x + y)^2$			
8.2 5. In a '30% off' sale, a hat was £101.50. Work out the original price. 		8.6 15. Make w the subject of the formula: $P = \frac{3w + 20}{200}$		23. On a spinner: $P(3) = \frac{1}{2}$ and the $p(4) = \frac{1}{4}$ What is the probability of getting 3 or 4 	
8.2 6. The cost of a fridge has increased by 25% to £525. Work out the original price. 		8.6 16. Make c the subject of the formula: $ab - cd = ac$			
8.3 7. Write 0.000034 in standard form:		8.7 <u>Give your answer correct to 3sf</u>  17. $A = \pi r^2 - \pi rs$ Find A when $r = 4.2$ and $s = 3.8$		24. A courgette seed and a pumpkin seed is planted. $P(\text{courgette seed germinates}) = \frac{3}{8}$ $P(\text{pumpkin seed germinates}) = \frac{1}{4}$ What is the probability that BOTH seeds germinate?	
8.3 8. Write $8.62 \times 10^2$ as an ordinary number		8.7 <u>Give your answer correct to 3sf</u>  18. $V = \frac{1}{3} \pi h(a^3 - b^3)$ Find V when $b = -3$ , $h = 5$ and $a = 4$			
8.3 9. Work out $(4.8 \times 10^3) \div (1.2 \times 10^{-2})$ Give your answer in standard form		8.12  19. If $\tan 72^\circ = \frac{12}{x}$ , find x (3sf)		25. Show on the cumulative frequency graph how to take the upper quartile reading 	
8.3 10. Work out $(5.2 \times 10^6)^2$ Give your answer in standard form 		8.13 LENGTH or AREA or VOLUME 20. Which measure does this expression represent: $c(a + b)$			
Total (A)		Total (B)		Total (C)	
Test Total (A+B+C)		R (0-9)	Y (10-19)	G (20-25)	