

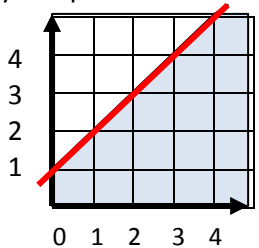







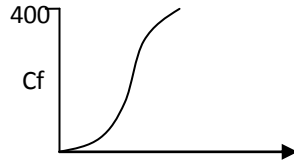



Name _____

Date _____

Class _____

Section A: Numbers & calculating		Section B: Algebra & Shape, space & measures		Section C: Using and applying	
8.1 1. Write $\frac{4}{9}$ as a recurring decimal 		8.4 11. Factorise: $a^2 - 9a + 20$		21. Linear-Quadratic-Cubic-Reciprocal Which type of graph is represented by this equation? $Y = 3 - 2x$	
8.1 2. Write 0.2 as a fraction		8.4 12. Factorise: $x^2 - y^2$			
8.2 3. Work out the balance for £600 invested for 3 years at 4.5% per annum 		8.5 14. Multiply & simplify: $(3x + 2)(2x - 5)$		22. What inequality is represented here? 	
8.2 4. The value of a DS depreciates by 30% per year. Work out the current value of a DS bought 4 years ago for £99. 		8.5 14. Multiply & simplify: $(a - 3b)^2$			
8.2 5. In a '60% off' sale, a dress was £26. Work out the original price. 		8.6 15. Make r the subject of the formula: $S = 5r^2 + 7$		23.  $P(\text{Jack is late to school any day}) = 0.7$ What is the probability that Jack will be late 2 days running?	
8.2 6. A computer has increased by 8% to £351. Work out the original price. 		8.6 16. Make c the subject of the formula: $a^2 = b^2 + c^2$			
8.3 7. Write 0.00000834 in standard form:		8.7 17. $h = ut - \frac{1}{2}gt^2$ Find h when $u = 100$ $t = 1\%$ & $g = 6.4$ 		24. Alf & Amy buy tickets in a raffle $P(\text{Alf wins 1st prize}) = 0.3$ $P(\text{Amy wins 1st prize}) = 0.25$ What is the probability that Alf or Amy win 1st prize?	
8.3 8. Write 6.72×10^4 as an ordinary number		8.7 <i>Give your answer correct to 3sf</i>  18. $T = 2\pi\sqrt{\frac{l}{8}}$ Find T when $l = 4\frac{3}{8}$			
8.3 9. Work out $(7 \times 10^{-4}) \times (8 \times 10^{-3})$ Give your answer in standard form		8.12 19. If $\sin x^\circ = \frac{7}{9}$, find x (3sf) 		25. Show on the cumulative frequency graph how to take the lower quartile reading 	
8.3 10. Work out $(5.63 \times 10^{-3}) - (4.28 \times 10^{-4})$, Give your answer in standard form 		8.13 LENGTH or AREA or VOLUME 20. Which measure does this expression represent: $a + b + c$			
Total (A)		Total (B)		Total (C)	
Test Total (A+B+C)		R (0-9)	Y (10-19)	G (20-25)	