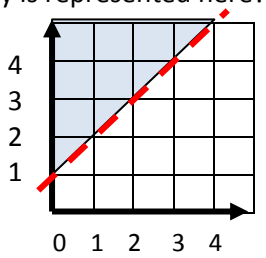
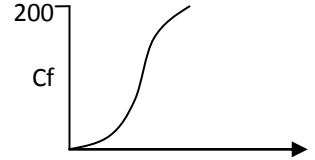
Caldew School **Maths Basic Skills** Level 8 Test 9

Name _____ **Date**_____ **Class**_____

Section A:Numbers & calculating		Section B: Algebra & Shape, space & measures		Section C: Using and applying	
8.1 1. Write $\frac{4}{11}$ as a recurring decimal		*8.4* 11. Factorise: $a^2 - 3a - 40$		**21. Linear-Quadratic-Cubic-Reciprocal** Which type of graph is represented by this equation? $y = x^2 - 2x - 3$	
8.1 2. Write 0.$\dot{0}\dot{3}$ as a fraction		*8.4* 12. Factorise: $a^2 - b^2$			
8.2 3. Work out the balance for £1500 invested for 2 years at 3.7% per annum		*8.5* 14. Multiply & simplify: (4b - 3)(2b + 1)		22. What inequality is represented here?  	
8.2 4. The value of a TV depreciates by 42% per year. Work out the current value of a TV bought 4 years ago for £425.		*8.5* 14. Multiply & simplify: $(2a - b)^2$			
8.2 5. In a '40% off' sale, a dress was £45. Work out the original price.		*8.6* 15. Make r the subject of the formula: $S = 2r^2 - 1$		23. P(Jack is late to school any day) = 0.4 What is the probability that Jack will be late 2 days running?	
8.2 6. The cost of a TV has increased by 15% to £437. Work out the original price.		*8.6* 16. Make c the subject of the formula: $a = b + c^2$			
8.3 7. Write 765000 in standard form:		*8.7* 17. $h = ut - \frac{1}{2}gt^2$ Find h when u = 200 t=1⅗ & g=9.8		24. Alf & Amy but tickets in a raffle P(Alf wins 1st prize) = 0.4 P(Amy wins 1st prize) = 0.1 What is the probability that Alf or Amy win 1st prize?	
8.3 8. Write 1.9×10^{-1} as an ordinary number		*8.7* ***Give your answer correct to 3sf*** 18. $T = 2\pi\sqrt{\frac{l}{8}}$ Find T when l = 1½			
8.3 9. Work out $(4 \times 10^3) \times (1.3 \times 10^4)$ Give your answer in standard form		*8.12* 19. If $\sin 52^0 = \frac{7}{x}$, find x (3sf)		25. Show on the cumulative frequency graph how to take the median reading  	
8.3 10. Work out $(7.63 \times 10^5) + (3.89 \times 10^4)$ Give your answer in standard form		*8.13* LENGTH or AREA or VOLUME 20. Which measure does this expression represent: **c(3b – 2a)**			
Total (A)		Total (B)		Total (C)	
Test Total (A+B+C)		R (0-9)	Y (10-19)	G (20-25)	