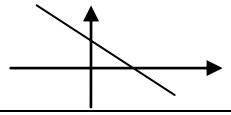
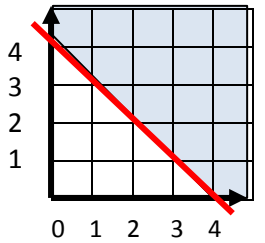
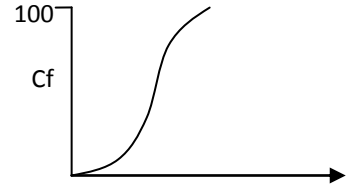
Caldew School **Maths Basic Skills** Level 8 Test 4

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

Section A:Numbers & calculating		Section B: Algebra & Shape, space & measures		Section C: Using and applying	
8.1 1. Write $\frac{5}{9}$ as a recurring decimal		*8.4* 11. Factorise: $x^2 + x - 12$		21. **Linear-Quadratic-Cubic-Reciprocal** Which function is represented by this graph? 	
8.1 2. Write $0.\dot{1}\dot{7}$ as a fraction		*8.4* 12. Factorise: $x^2 - 100$			
8.2 3. Work out the balance for £800 invested for 5 years at 6% per annum		*8.5* 14. Multiply & simplify: $(x - 1)(3x - 2)$		22. What inequality is represented here?  	
8.2 4. The value of a house depreciates by 6% per year. Work out the current value of a house bought 3 years ago for £250000.		*8.5* 14. Multiply & simplify: $(4x + 1)^2$			
8.2 5. In a '70% off' sale, a dress was £48. Work out the original price.		*8.6* 15. Make a the subject of the formula: $v^2 = u^2 + 2as$		23. On a spinner: P(3) = ½ and the p(4) = ⅙ What is the probability of getting 3 or 4	
8.2 6. The cost of a tyre has increased by 20% to £78. Work out the original price.		*8.6* 16. Make e the subject of the formula: $A = de - 2ef$			
8.3 7. Write 0.0004 in standard form:		*8.7* 17. $S = \frac{u^2 - v^2}{2a}$ Find S when, u = -4, v = -1.5, a = 2.5		24. A courgette seed and a pumpkin seed are planted. P(courgette seed germinates) = ⅘ P(pumpkin seed germinates) =⅙ What is the probability that BOTH seeds germinate?	
8.3 8. Write 7.12×10^3 as an ordinary number		*8.7* 18. $D = ut - kt^2$ Find D when u = 25, t = ⅗, k = -2			
8.3 9. Work out $(6 \times 10^7) \div (2 \times 10^3)$ Give your answer in standard form		*8.12* 19. If $\cos 28^0 = \frac{x}{4}$, find x (3sf)		25. Show on the cumulative frequency graph how to take the lower quartile reading  	
8.3 10. Work out $(3.7 \times 10^{-4}) \times (2.9 \times 10^{-3})$ Give your answer in standard form		*8.13* LENGTH or AREA or VOLUME 20. Which measure does this expression represent: **$3ab^2$**			
Total (A)		Total (B)		Total (C)	
Test Total (A+B+C)		R (0-9)	Y (10-19)	G (20-25)	