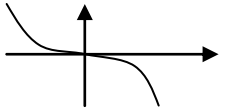
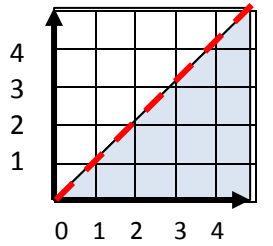
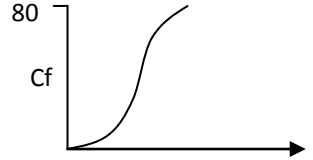
Caldew School **Maths Basic Skills** Level 8 Test 7

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

Section A:Numbers & calculating		Section B: Algebra & Shape, space & measures		Section C: Using and applying	
8.1 1. Write $\frac{1}{3}$ as a recurring decimal		*8.4* 11. Factorise: $a^2 - 17a + 30$		**21. Linear-Quadratic-Cubic-Reciprocal** Which function is represented by this graph? 	
8.1 2. Write $0.\dot{5}$ as a fraction		*8.4* 12. Factorise: $p^2 - 1$			
8.2 3. Work out the balance for £400 invested for 6 years at 12% 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 55% per year. Work out the current value of a bike bought 2 years ago for £1300.		*8.5* 14. Multiply & simplify: $(a + b)^2$			
8.2 5. In a '30% off' sale, a coat was £210. Work out the original price.		*8.6* 15. Make w the subject of the formula: $P = \frac{7w - 10}{60}$		23. On a spinner: P(3) = ⅕ and the p(4) = ⅓ What is the probability of getting 3 or 4	
8.2 6. The cost of a phone has increased by 10% to £352. Work out the original price.		*8.6* 16. Make a the subject of the formula: ab – cd = ac			
8.3 7. Write 475000 in standard form:		*8.7* ***Give your answer correct to 3sf*** 17. $A = \pi r^2 - \pi rs$ Find A when r = 2.7 and s = 1.6		24. A courgette seed and a pumpkin seed is planted. P(courgette seed germinates) =⅚ P(pumpkin seed germinates) = ⅔ What is the probability that BOTH seeds germinate?	
8.3 8. Write 5×10^{-3} as an ordinary number		*8.7* ***Give your answer correct to 3sf*** 18. $\frac{1}{u} + \frac{1}{v} = \frac{1}{f}$ Find f when u=2½ & v=3⅓			
8.3 9. Work out $(8 \times 10^6) \times (9 \times 10^{-2})$ Give your answer in standard form		*8.12* 19. If $\cos 35^0 = \frac{8}{x}$, find x (3sf)		25. Show on the cumulative frequency graph how to take the inter-quartile range reading  	
8.3 10. Work out $(3.1 \times 10^{-4})^2$ Give your answer in standard form		*8.13* LENGTH or AREA or VOLUME 20. Which measure does this expression represent: **π(ab + bc)**			
Total (A)		Total (B)		Total (C)	
Test Total (A+B+C)		R (0-9)	Y (10-19)	G (20-25)	