Caldew School	Maths Basic Skills	Level 8 Test	14
Name	Date	Class	_
Section A:Numbers & calculating	Section B: Algebra & Shape, space & n	measures Section C: Using and applying	
8.1 1. Write $\frac{4}{15}$ as a recurring decimal	8.4 11. Factorise: x ² + x - 12	21. Linear-Quadratic-Cubic-Reciprocal Which type of function is represented	
8.1 2. Write 0. 189 as a fraction	8.4 12. Factorise: $x^2 - 9y^2$	by this equation? $y = x^3 - 2x^2$	
 8.2 3. Work out the balance for £240 invested for 3 years at 6% per annum 	8.5 14. Multiply & simplify: (2x - 3)(2x + 3)	22. What inequality is represented here?	
 8.2 4. The value of a motorbike depreciates by 32% per year. Work out the current value of a motorbike bought 5 years ago for £3600. 	8.5 14. Multiply & simplify: (3a - 5) ²		
 8.2 5. In a '80% off' sale, an oven was £112. Work out the original price. 	8.6 15. Make v the subject of the formula: s = uv u + v	23. P(1 st traffic lights are RED) = 0.7 P(2 nd traffic lights are RED) = 0.3	
 8.2 6. A water bill has increased by 25% to £52.50. Work out the original cost. 	8.6 16. Make r the subject of the formula: $v = 4\pi r^2 h$	What is the probability that both are RED?	
8.3 7. Write 0.034 in standard form:	8.7 17. d= $\sqrt{a^2 + b^2 + 2ab}$ Find d when a = 4 and b = 7	24. Max rolls 2 dice P(the total is 12) = 0.03 P(the total is 10) = 0.08	
8.3 8. Write 3.125x 10 ³ as an ordinary number	8.7 <u>Give your answer correct to 3sf</u> 18. $d=\sqrt{a^2 + b^2 + c^2}$ Find d when $a = 5.2$ b = 3.8 & c = -4	What is the probability that Max rolls 2 dice and gets totals of 12 or 10?	
8.3 9. Work out (6.2×10^5) - (3.7×10^4) Give your answer in standard form	$ \frac{8.12}{19. \text{ If sin } 18^{\circ}} = \frac{23}{x}, \text{ find x (3sf)} $	25. Show on the cumulative frequency graph how to take the lower quartile reading 48 7	
 8.3 10. Work out (5.8x10⁵)x(3.5 x 10³) Give your answer in standard form 	 8.13 LENGTH or AREA or VOLUME 20. Which measure does this expression represent: a³ ÷ a 	Cf	
Total (A)	Total (B)	Total (C)	
Test Total (A+B+C)	R (0-9)	Y (10-19) G (20-25)	