Caldew School			Level 8 Test 15		
Name	Date				
Section A:Numbers & calculating8.1 1. Write $\frac{14}{15}$ as a recurring decimal	Section B: Algebra & Shape, space & 8.4 11. Factorise: x ² - 15x + 36	measures	Section C: Using and applying 21. Linear-Quadratic-Cubic-Reciprocal Which type of function is represented		
 8.1 2. Write 0. 135 as a fraction 	8.4 12. Factorise: 49x ² – 25		by this equation? $y = \frac{6}{x}$		
8.23. Work out the balance for £240invested for 20 years at 7% per annum	8.5 14. Multiply & simplify: (3x + 1)(3x - 1)		22. What inequality is re	presented here?	
 8.2 4. The value of a scooter depreciates by 40% per year. Work out the current value of a scooter bought 4 years ago for £600. 	8.5 14. Multiply & simplify: (2y + 7) ²				
 8.2 5. In a '80% off' sale, an coffee maker was £24.80 Work out the original price. 	8.6 15. Make u the subject of the formula: $s = \underline{uv}$ u + v		23. P(1 st traffic lights are RED) = 0.8 P(2 nd traffic lights are RED) = 0.2 What is the probability that both are RED?		
 8.2 6. A food bill has increased by 24% to £99.20. Work out the original cost. 	8.6 16. Make r the subject of the formul $v = \frac{4}{3}\pi r^3$	a:			
<i>8.3</i>7. Write 6700000 in standard form:	8.7 17. d= $\sqrt{a^2 + b^2 + 2ab}$ Find d when a = 9 & b = 5		24. Max rolls 2 dice P(the total is 4) = 0.07 P(the total is 10) = 0.1 What is the probability that Max rolls 2 dice and gets totals of 4 or 10?		
 8.3 8. Write 8.7 x 10⁻² 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 $a = 5.4$ b = 8 & c = -7				
8.3 9. Work out (4.2×10^9) + (3.6×10^8) Give your answer in standard form	8.12 19. If sin $68^0 = \underline{x}$, find x (3sf) 16		25. Show on the cumulative frequency graph how to take the upper quartile reading 48 Cf		
 8.3 10. Work out (5.63x10⁵)² to 3sf Give your answer in standard form 	8.13 LENGTH or AREA or VOLUME 20. Which measure does this expression represent: $a^3 \div a^2$				
Total (A)	Total (B)		Total (C)		
Test Total (A+B+C)	R (0-9)	Y (10	Y (10-19) G (20-25)		