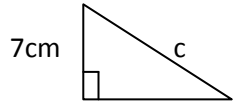
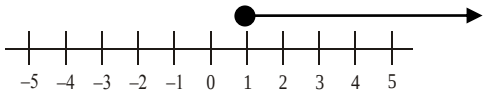
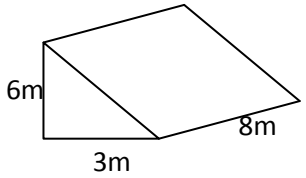
Caldew School **Maths Basic Skills** Level 7 Test 4

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

Section A:Numbers & calculating		Section B: Algebra		Section C: Using and applying	
7.1 1. To increase an amount by 70%, what single multiplier would you use?		*7.6* 11. Expand & simplify: $(x + 3)(x + 3)$		21.  To find 'c' choose one calculation: $\sqrt{7^2 - 3^2}$ OR $\sqrt{7^2 + 3^2}$	
7.1 2. To decrease an amount by 70%, what single multiplier would you use?		*7.6* 12. Expand & simplify: $(x - 4)(x + 4)$			
7.2 3. Increase £64 by 70%		*7.8* 14. Solve: $x - 2 > -6$		22. 44cm is rounded to nearest whole cm. Write down the minimum possible length it could have been.	
7.2 4. Decrease £64 by 70%		*7.8* 14. Give the inequality  			
7.3 5. Without a calculator work out: 0.3 x 7		*7.9* 15. Make a the subject of the formula: $T = a + 6$		23. An apple has a mass of 150g and a volume of 100cm^3 Find its density in g/cm^3?	
7.3 6. Without a calculator work out: 12 ÷ 0.3		*7.9* 16. Work out the value of: $3x + 2y$ When $x = 2$ and $y = -5$			
7.4 7. Round off 3. 55 to one significant figure		*7.10* 17. Write down the next term in this sequence: 1 5 13 25 41 ...		24. If the relative frequency of getting a 'blue' on a spinner is 0.1, how many blues would you expect to get in 50 spins?	
7.4 8. Estimate the answer to: 341 ÷ 28		*7.10* 18. Write down the 2rd term in the sequence given by: T(n) = n^2 - 5			
7.5 9. Use a calculator to work out: (1dp) $5.6^3 + 11.2$		*7.11* 19. If $y = x^2 + 2x$, find the value of y when $x = 3$		25. Work out the volume of this prism?  	
7.5 10. Use a calculator to work out: (1dp) $\frac{8.94 \times \sqrt{9.81}}{2.04 \times 1.38}$		*7.11* 20. If $y = x^3 - 3$, find the value of y when $x = 2$			
Total (A)		Total (B)		Total (C)	
Test Total (A+B+C)		R (0-9)	Y (10-19)	G (20-25)	