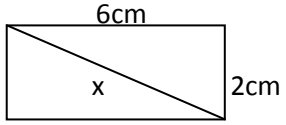
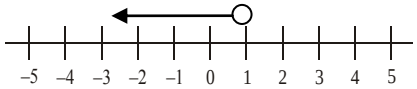
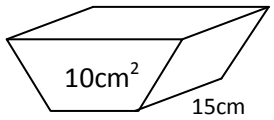
Caldew School **Maths Basic Skills** Level 7 Test 11

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

Section A:Numbers & calculating		Section B: Algebra		Section C: Using and applying	
7.1 1. To increase an amount by 85%, what single multiplier would you use?		*7.6* 11. Expand & simplify: $(x - 10)(x - 10)$		21.  To find 'x' choose one calculation: $\sqrt{6^2 + 2^2}$ OR $\sqrt{6^2 - 2^2}$	
7.1 2. To decrease an amount by 85%, what single multiplier would you use?		*7.6* 12. Expand & simplify: $(x + 7)(x + 7)$			
7.2 3. Increase 250ml by 85%		*7.8* 14. Solve: $3x + 1 < 10$		22. 39 is rounded to the nearest whole. Write down the maximum possible length it could have been.	
7.2 4. Decrease 200g by 85%		*7.8* 14. Give the inequality  			
7.3 5. Without a calculator work out: 0.2 x 0.8		*7.9* 15. Make b the subject of the formula: P= 2a + b		23. Jane cycles 27km at 12km/h. How long does she take?	
7.3 6. Without a calculator work out: 6 ÷ 0.1		*7.9* 16. Work out the value of: xy - 3 When x = -2 and y = -4			
7.4 7. Round off 0.043 to one significant figure		*7.10* 17. Write down the next term in this sequence: 4 5 8 13 20 ...		24. The relative frequency of blue on a spinner is $\frac{3}{5}$. How many times would you expect a blue in 250 spins?	
7.4 8. Estimate the answer to: 423 ÷ 18		*7.10* 18. Write down the 3rd term in the sequence given by: $T(n) = n^2 - 2n$			
7.5 9. Use a calculator to work out: (1dp) $\sqrt[3]{8.2x3.7} \div 0.46$		*7.11* 19. If $y = x^2 - x - 3$, 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) $\frac{62.3 \times 1.5}{17.6 - 8.9}$		*7.11* 20. If $y = x^3 + x$, find the value of y when x = -1			
Total (A)		Total (B)		Total (C)	
Test Total (A+B+C)		R (0-9)	Y (10-19)	G (20-25)	