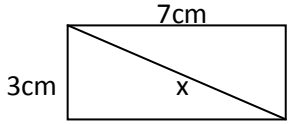
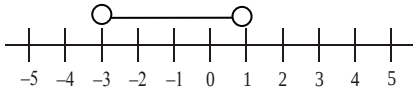
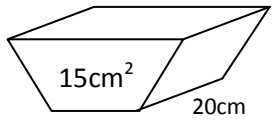
Caldew School **Maths Basic Skills** Level 7 Test 10

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

Section A:Numbers & calculating		Section B: Algebra		Section C: Using and applying	
7.1 1. To increase an amount by 5%, what single multiplier would you use?		*7.6* 11. Expand & simplify: $(x - 1)(x - 1)$		21.  To find 'x' choose one calculation: $\sqrt{7^2 + 3^2}$ OR $\sqrt{7^2 - 3^2}$	
7.1 2. To decrease an amount by 60%, what single multiplier would you use?		*7.6* 12. Expand & simplify: $(x + 7)(x - 7)$			
7.2 3. Increase 47 litres by 5%		*7.8* 14. Solve: $2x + 5 \geq 3$		22. 39 is rounded to the nearest whole. Write down the minimum possible length it could have been.	
7.2 4. Decrease 64 by 60%		*7.8* 14. Give the inequality  			
7.3 5. Without a calculator work out: 0.4 x 7		*7.9* 15. Make c the subject of the formula: $A = c - d$		23. Oil has a volume of $9000cm^3$ and a density of $0.8g/cm^3$. What is the mass of the oil?	
7.3 6. Without a calculator work out: 25 ÷ 0.5		*7.9* 16. Work out the value of: $xy - 3$ When $x = 2$ and $y = -3$			
7.4 7. Round off 345 to one significant figure		*7.10* 17. Write down the next term in this sequence: 2 3 6 11 18 ...		24. The relative frequency of green on a spinner is $\frac{5}{6}$. How many times would you expect a green in 300 spins?	
7.4 8. Estimate the answer to: 423 x 18		*7.10* 18. Write down the 2^{nd} term in the sequence given by: $T(n) = n^2 - 2n$			
7.5 9. Use a calculator to work out: (1dp) $(2.4x1.9)^2 \times 2.03$		*7.11* 19. If $y = x^2 - x$, find the value of y when $x = 2$		25. Work out the volume of this prism?  	
7.5 10. Use a calculator to work out:(1dp) $\frac{423 \times 18}{176 - 38.3}$		*7.11* 20. If $y = x^3 + x$, 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)