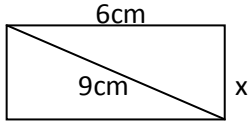
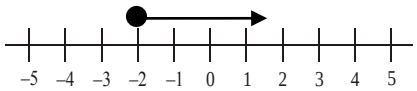
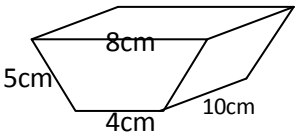
Caldew School **Maths Basic Skills** Level 7 Test 12

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

Section A:Numbers & calculating		Section B: Algebra		Section C: Using and applying	
7.1 1. To increase an amount by 40%, what single multiplier would you use?		*7.6* 11. Expand & simplify: $(x - 8)(x + 2)$		21.  To find 'x' choose one calculation: $\sqrt{9^2 + 6^2}$ OR $\sqrt{9^2 - 6^2}$	
7.1 2. To decrease an amount by 8%, what single multiplier would you use?		*7.6* 12. Expand & simplify: $(x + 7)(x - 1)$			
7.2 3. Increase 250ml by 40%		*7.8* 14. Solve: $3x - 1 < 2$		22. 80 is rounded to the nearest ten. Write down the maximum possible length it could have been.	
7.2 4. Decrease 200g by 8%		*7.8* 14. Give the inequality  			
7.3 5. Without a calculator work out: 0.03 x 0.09		*7.9* 15. Make a the subject of the formula: $P = 2a - 3$		23. A silver brooch has a mass of 315g. The density of the silver is 10.5g/cm^3 What is the volume of the silver?	
7.3 6. Without a calculator work out: $21 \div 0.3$		*7.9* 16. Work out the value of: $xy + y$ When $x = 5$ and $y = 2$			
7.4 7. Round off 0.065 to one significant figure		*7.10* 17. Write down the next term in this sequence: 2 4 8 16 32 ...		24. The relative frequency of yellow on a spinner is $\frac{2}{3}$. How many times would you expect a yellow in 180 spins?	
7.4 8. Estimate the answer to: $18.4 \div 0.47$		*7.10* 18. Write down the 3rd term in the sequence given by: $T(n) = 2n^2$			
7.5 9. Use a calculator to work out: (1dp) $(2.4 \times 1.9)^3 \div 2.03$		*7.11* 19. If $y = x^2 - x - 3$, 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) $\frac{62.3 + 19.5}{7.6 \times 1.9}$		*7.11* 20. If $y = x^3 + 2x$, 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)