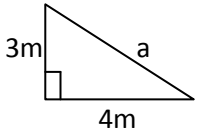
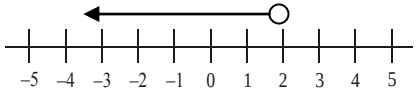
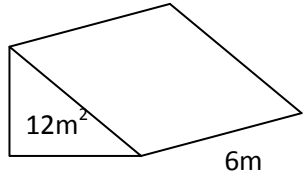
Caldew School **Maths Basic Skills** Level 7 Test 1

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

Section A:Numbers & calculating		Section B: Algebra		Section C: Using and applying	
7.1 1. To increase an amount by 7%, what single multiplier would you use?		*7.6* 11. Expand & simplify: $(x + 2)(x + 3)$		21.  To find 'a' choose one calculation: $\sqrt{4^2 + 3^2}$ OR $\sqrt{4^2 - 3^2}$	
7.1 2. To decrease an amount by 7%, what single multiplier would you use?		*7.6* 12. Expand & simplify: $(x + 2)(x – 3)$			
7.2 3. Increase £28 by 7%		*7.8* 14. Solve: $x + 1 < 5$		22. 123 grams is rounded to nearest whole. Write down the maximum possible mass it could have been	
7.2 4. Decrease £28 by 7%		*7.8* 14. Give the inequality  			
7.3 5. Without a calculator work out: 0.2 x 0.3		*7.9* 15. Make n the subject of the formula: M=3n		23. A plane flies 1440miles at a speed of 240mph. How long does it take?	
7.3 6. Without a calculator work out: 5 ÷ 0.1		*7.9* 16. Work out the value of: $3x + 2y$ When x = 5 and y = -4			
7.4 7. Round off 17.2 to one significant figure		*7.10* 17. Write down the next term in this sequence: 1 4 9 16 25		24. If the relative frequency of getting a 'six' on a dice is 0.2, how many sixes would you expect to get in 200 throws of the dice?	
7.4 8. Estimate the answer to: 17 x 193		*7.10* 18. Write down the 1st term in the sequence given by: $T(n) = n^2 + 3$			
7.5 9. Use a calculator to work out: (1dp) $(0.3 \times 2.8)^2$		*7.11* 19. If $y = 3x^2 + 4$, 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) $\frac{6.38 + 4.52}{4.71 + 9.53}$		*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)