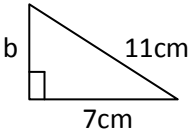
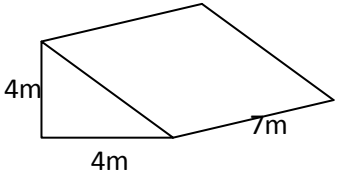
Caldew School **Maths Basic Skills** Level 7 Test 3

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

Section A:Numbers & calculating		Section B: Algebra		Section C: Using and applying	
7.1 1. To increase an amount by 30%, what single multiplier would you use?		*7.6* 11. Expand & simplify: $(x + 5)(x + 2)$		21.  To find 'b' choose one calculation: $\sqrt{11^2 - 7^2}$ OR $\sqrt{11^2 + 7^2}$	
7.1 2. To decrease an amount by 30%, what single multiplier would you use?		*7.6* 12. Expand & simplify: $(x - 2)(x + 6)$			
7.2 3. Increase £248 by 30%		*7.8* 14. Solve: $x + 7 < 3$		22. 44cm is rounded to nearest whole cm. Write down the maximum possible length it could have been.	
7.2 4. Decrease £248 by 30%		*7.8* 14. Give the inequality  			
7.3 5. Without a calculator work out: 0.2 x 0.9		*7.9* 15. Make a the subject of the formula: T= a + 4		23. A runner runs at 7.6mph for 3 ½ hours. How many miles did he run?	
7.3 6. Without a calculator work out: 12 ÷ 0.2		*7.9* 16. Work out the value of: $3x + 2y$ When x = -3 and y = -4			
7.4 7. Round off 863 to one significant figure		*7.10* 17. Write down the next term in this sequence: -1 2 7 14 23 ...		24. If the relative frequency of getting a 'red' on a spinner is 0.4, how many reds would you expect to get in 300 spins?	
7.4 8. Estimate the answer to: 3.8 x 52		*7.10* 18. Write down the 3rd term in the sequence given by: $T(n) = n^2 + 4$			
7.5 9. Use a calculator to work out: (2dp) $4.5^2 - \sqrt{53}$		*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) $\frac{2.3 \times 6.82}{7.74 - 1.09}$		*7.11* 20. If $y = x^3 + 3$, find the value of y when x = 3			
Total (A)		Total (B)		Total (C)	
Test Total (A+B+C)		R (0-9)	Y (10-19)		G (20-25)