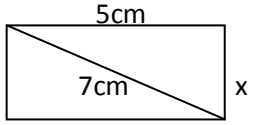
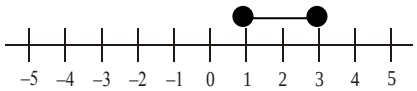
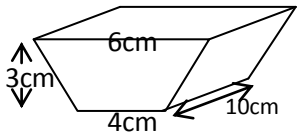
Caldew School **Maths Basic Skills** Level 7 Test 13

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

Section A:Numbers & calculating		Section B: Algebra		Section C: Using and applying	
7.1 1. To increase an amount by 17.5%, what single multiplier would you use?		*7.6* 11. Expand & simplify: $(x - 2)(x + 9)$		21.  To find 'x' choose one calculation: $\sqrt{7^2 + 5^2}$ OR $\sqrt{7^2 - 5^2}$	
7.1 2. To decrease an amount by 16%, what single multiplier would you use?		*7.6* 12. Expand & simplify: $(x + 1)(x - 5)$			
7.2 3. Increase £160 by 17.5%		*7.8* 14. Solve: $3x + 11 \leq 2$		22. 80 is rounded to the nearest ten. Write down the minimum possible length it could have been.	
7.2 4. Decrease 800g by 16%		*7.8* 14. Give the inequality  			
7.3 5. Without a calculator work out: 1.5 x 2		*7.9* 15. Make a the subject of the formula: $P = 2a + 4$		23. The volume of glass was 3600cm^3. The density of glass is 2.6g/cm^3. What is the mass of the glass?	
7.3 6. Without a calculator work out: 12 ÷ 0.4		*7.9* 16. Work out the value of: $xy + y$ When x = -3 and y = 2			
7.4 7. Round off 48.7 to one significant figure		*7.10* 17. Write down the next term in this sequence: 3 5 9 15 23 ...		24. The relative frequency of getting a HEAD when tossing a coin is ⅜. How many HEADS would you expect if the coin is tossed 400 times?	
7.4 8. Estimate the answer to: 284 ÷ 0.52		*7.10* 18. Write down the 5th term in the sequence given by: $T(n) = 2n^2$			
7.5 9. Use a calculator to work out: (1dp) $\sqrt[3]{(9.6x43)}$		*7.11* 19. If $y = x^2 - x - 3$, find the value of y when x = -4		25. Work out the volume of this prism?  	
7.5 10. Use a calculator to work out: (1dp) $\frac{\sqrt{1000}}{7.6 \times 1.9}$		*7.11* 20. If $y = x^3 + 2x$, 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)