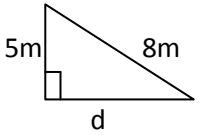
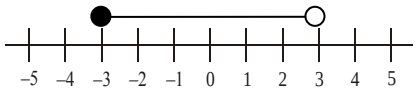
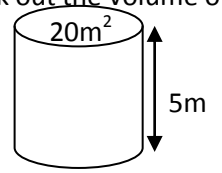
Caldew School **Maths Basic Skills** Level 7 Test 6

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

Section A:Numbers & calculating		Section B: Algebra		Section C: Using and applying	
7.1 1. To increase an amount by 18%, what single multiplier would you use?		*7.6* 11. Expand & simplify: $(x + 2)(x + 2)$		21.  To find 'd' choose one calculation: $\sqrt{8^2 + 5^2}$ OR $\sqrt{8^2 - 5^2}$	
7.1 2. To decrease an amount by 18%, what single multiplier would you use?		*7.6* 12. Expand & simplify: $(x - 3)(x - 4)$			
7.2 3. Increase 380 by 18%		*7.8* 14. Solve: $3x \leq 6$		22. 10.2cm is rounded to one decimal place. Write down the minimum possible length it could have been.	
7.2 4. Decrease 380 by 18%		*7.8* 14. Give the inequality  			
7.3 5. Without a calculator work out: 0.4×0.6		*7.9* 15. Make a the subject of the formula: $T = a - 6$		23. A steel ball has s volume of $1500cm^3$. The density of the ball is $95g/cm^3$ Work out the mass of the ball in kg	
7.3 6. Without a calculator work out: $0.6 \div 0.2$		*7.9* 16. Work out the value of: $5x - 2y$ When $x = 2$ and $y = -3$			
7.4 7. Round off 34162 to one significant figure		*7.10* 17. Write down the next term in this sequence: 2 5 11 20 32 ...		24. If the relative frequency of a train being on time is 0.4, how often could you expect the train to be on time over 20days?	
7.4 8. Estimate the answer to: $109 \div 96$		*7.10* 18. Write down the 5^{th} term in the sequence given by: $T(n) = n^2 - 7$			
7.5 9. Use a calculator to work out: (1dp) $\sqrt{(3.6^2 - 1.8^2)}$		*7.11* 19. If $y = x^2 + 2x$, find the value of y when $x = 5$		25. Work out the volume of this prism?  	
7.5 10. Use a calculator to work out☹1dp) $\frac{15^2 - 12^2}{\sqrt{(9.6 - 3.78)}}$		*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)