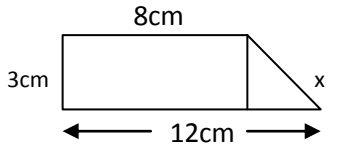


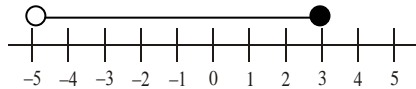


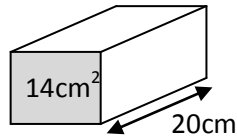



Name _____		Date _____		Class _____	
Section A: Numbers & calculating		Section B: Algebra		Section C: Using and applying	
7.1 1. To increase an amount by 12.5%, what single multiplier would you use?		7.6 11. Expand & simplify: $(x + 4)^2$		21.  To find 'x' choose one calculation: $\sqrt{4^2 + 3^2}$ OR $\sqrt{12^2 + 3^2}$ OR $\sqrt{8^2 + 3^2}$	
7.1 2. To decrease an amount by 62%, what single multiplier would you use?		7.6 12. Expand & simplify: $(x + 2)(x - 3)$			
7.2 3. Increase £164 by 12.5% 		7.8 14. Solve: $4x + 1 > 5$		22. 320 is rounded to the nearest ten. Write down the minimum possible length it could have been.	
7.2 4. Decrease 800g by 62% 		7.8 14. Give the inequality 			
7.3 5. Without a calculator work out: $0.4 \times 0.2$		7.9 15. Make a the subject of the formula: $P = 2a - b$		23.  Jack did 288 miles averaging 64mph. How long did it take him?	
7.3 6. Without a calculator work out: $15 \div 0.3$		7.9 16. Work out the value of: $xy + y$ When $x = -3$ and $y = -2$			
7.4 7. Round off 233 to one significant figure		7.10 17. Write down the next term in this sequence: 2 5 10 17 26 ...		24. The relative frequency that the traffic lights will show RED at road works is 0.2. Estimate how many times they would be RED over the next 40 journeys?	
7.4 8. Estimate the answer to: $233 \times 52$		7.10 18. Write down the 4 <sup>th</sup> term in the sequence given by: $T(n) = 2n^2 + n$			
7.5 9. Use a calculator to work out: (2dp)  $\sqrt{555} \div 1.12^4$		7.11 19. If $y = x^2 + 2x + 3$ , find the value of y when $x = 3$		25. Work out the volume of this prism?  	
7.5 10. Use a calculator to work out: (1dp)  $\frac{34.7 \times 3.6}{2.86 \times 12.04}$		7.11 20. If $y = x^3 - x$ , 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)