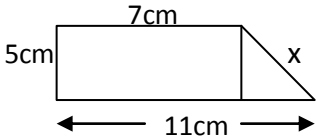


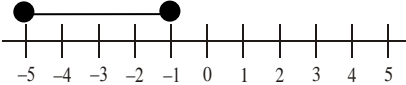

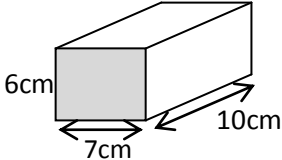



Name _____		Date _____		Class _____	
Section A: Numbers & calculating		Section B: Algebra		Section C: Using and applying	
7.1 1. To increase an amount by 35%, what single multiplier would you use?		7.6 11. Expand & simplify: $(x + 9)^2$		21.  To find 'x' choose one calculation: $\sqrt{4^2 + 5^2}$ OR $\sqrt{11^2 + 5^2}$ OR $\sqrt{7^2 + 5^2}$	
7.1 2. To decrease an amount by 35%, what single multiplier would you use?		7.6 12. Expand & simplify: $(x - 2)(x - 3)$			
7.2 3. Increase 620ml by 35% 		7.8 14. Solve: $4x - 1 \leq 13$		22. 320 is rounded to the nearest ten. Write down the maximum possible length it could have been.	
7.2 4. Decrease 56kg by 35% 		7.8 14. Give the inequality 			
7.3 5. Without a calculator work out: $0.03 \times 0.6$		7.9 15. Make x the subject of the formula: $T = 2x + 2y$		23. A metal bar has a mass of 960g and a volume of $120\text{cm}^3$ . Find the density of the metal in the bar.	
7.3 6. Without a calculator work out: $15 \div 0.2$		7.9 16. Work out the value of: $xy - y$ When $x = 5$ and $y = -4$			
7.4 7. Round off 6831 to one significant figure		7.10 17. Write down the next term in this sequence: 1 8 27 64 ...		24. The relative frequency that the traffic lights will show GREEN at road works is 0.7. Estimate how many times they would be RED over the next 40 journeys?	
7.4 8. Estimate the answer to: $6345 \div 265$		7.10 18. Write down the 3 <sup>rd</sup> term in the sequence given by: $T(n) = 2n^2 + n$			
7.5 9. Use a calculator to work out: (1dp)  $\sqrt{607} \div 2.2^4$		7.11 19. If $y = x^2 + 2x + 3$ , find the value of y when $x = -1$		25. Work out the volume of this prism? 	
7.5 10. Use a calculator to work out: (1dp)  $\sqrt[3]{2000}$ $2.14 + 2.32$		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)	