Name: ..... Date: ..... Class/Group: ..... A: Number & Algebra B: Proportion, Geometry & Measure C: Statistics & Probability 9:27 1. Write **8.12 x 10**<sup>4</sup> as an ordinary number 9:13 11. Work out the **balance** on £300 over 21. Work out the £364.65 81200 4 years at 5% compound interest p(C only) 2. Write **6.5 x 10<sup>-2</sup>** as an ordinary number 12. A suit cost £220 with 20% off. Find 9:14 0.065 original cost. £275 9:2 9:15 3. 80 has been rounded to nearest 10 13. Volume = 5cm<sup>3</sup> Density = 10.5g/cm<sup>3</sup> 75≤ x <85 What is the mass? 52.5g Express the limits in the form  $a \le x < b$ 4. Solve:  $x^2 + 6x + 8 = 0$ 14. Is the graph in Q9 in direct proportion? 9:16 22. The probability of passing Test 1 is 0.5 & Test 2 is 0.3. x=-4or-2YES Complete the tree diagram. 9:17 5. If  $2x - 5 \le 3$ , show the solution for x on the 15. The two shapes are similar. Find x Test 1 Sf= 10÷6 number line =5/3 12÷ 5/3 10cm =7.2cm 16. Work out the perimeter of 9:18 23. Use the tree diagram to work out the probability of 9:28 6. Make 'a' the subject of the equation a=4(S-8u) the ¼ circle (to 3sf) 5cm 17.9cm passing Test 1 but not Test 2 0.5x0.7S = a + 8u= 0.35 7. Solve the equation:  $\frac{2x-1}{2} = 6$ 9:7 17. Work out the curved surface area of 9:20 24. Construct the perpendicular bisector of 9:25 2xπx7x10 x = 6.5this cylinder in terms of  $\pi$  r=7cml/ this line  $=140\pi cm^{2}$ 10cm 9:21 8. Write down the equation of a line parallel 9:8 18. Give the condition of congruency: to **ASA** x + y = 6 $v = \pm c - x$ or 32º x+y=±c 4cm 9:9 9:22 9:29 19. 25. A survey of people coming out of the cinema 9. Give the rate of change 6cm was conducted. They selected 10 men, 10 women Dollar/Pound exchange  $\sqrt{(6^2-5^2)}$ £1≈\$1.5 and 10 children. Dollars \$ =3.3cm Do you think this is OK? Give a reason for your Work out length 'x' (to 1dp) choice. YES (NO) - circle your choice Small sample but also equal numbers of each will not be representative of the population so the 9:12 10. Evaluate  $x^2 - 5x$  when x = -420. Complete the sentence outcome could be biased 16+20 sin  $\mathbf{x} = -$ =36 Total (A) Total (B) Total (C) R (0-9) Y (10-19) G (20-25) Test Total (A+B+C)