Class/Group: .....

| A: Number & Algebra  |  | B: Proportion, Geometry & Measure  |                                  | C: Goometry & Measure  | Statistics & Probability                         |                     |
|--|--|--|----------------------------------|--|--|---------------------|
| 1. Write <b>93 000 000</b> in standard form 9:1  |  | 11. Work out the <b>balance</b> on £1000 over 3 9:13   |                                  | C: Geometry & Measure, Statistics & Probability  21. Work out the p(B) 9:27  |  |                     |
| 1. Write 93 000 000 iii Standard Toriii  | -  |  |                                  | 21. Work out the p(b)  | B C  | 3.27                |
| 2. Write <b>0.0072</b> in standard form  | 9.3x10 <sup>7</sup> 9:1 7.2x10 <sup>-3</sup> | years at 8% simple interest  12. A coat cost £84 with 20% off. Find original cost.                       | £1240<br>9:14<br>£105            | _  | 1 8 (3) 7  | 11<br>19            |
| 3. 60 has been rounded to nearest 10 Express the limits in the form a < x ≤ b                                    | 9:2<br><b>55≤x&lt; 65</b>                    | 13. Mass= 45g. Volume = 5cm <sup>3</sup><br>What is the density?   | 9:15<br><b>9g/cm<sup>3</sup></b> | -<br>  |  |                     |
| 4. Factorise: $x^2 + 6x + 8$   | 9:4<br>(x+4)(x+2)                            | 14. Is this Celsius to Fahrenheit Faconversion graph in direct proportion?                               | 9:16<br><b>NO</b>                | Complete the tree diagra   |  | 9:28                |
| 5. If <b>0</b> < <b>x</b> ≤ <b>6</b> , show the solution for <b>x</b> on the number line  -1 0 1 2 3 4 5 6 7 8 9 | 9:5  | 15. The two shapes are similar. Find x  10cm  4cm  8cm   | 9:17<br><b>5cm</b>               | 0.4 Pas  | English  0,2  Pass  PF  0.8  Fail  0.8  Fail  FF |                     |
| 6. Make 's' the subject of the equation $v^2 = u^2 + 2as$  | $9:6$ $s = \frac{v^2 - u^2}{2a}$             | 16. In multiples of $\pi$ , work out the perimeter of a <b>quarter-circle</b> of diameter 8cm            | 9:18<br><b>2π+8 cm</b>           | 23. Use the tree diagram to work out the probability of failing both of the subjects   |  | 9:28<br><b>0.48</b> |
| 7. Solve the equation: $\frac{2x+1}{3} = 7$  | 9:7<br><b>x=10</b>                           | 17. Work out the curved surface area of this cylinder in terms of $\pi$ r=3cm $\frac{1}{6}$ cm           | 2xπx3x6<br>=36πcm²               | 24. Construct the bisector of the angle.   |  |                     |
| 8. Write down the equation of a line parallel to $x+y=5$   | 9:8<br>Y = ±c - x                            | 18. Give the condition of congruency:  | 9:21<br>RHS                      | X  |  |                     |
| 9. Give the rate of change  £/Euro conversion graph  150  150  150  150  150  150  150  15                       | 9:9<br>£100=130Euros<br>£1=1.3Euros          | 19. $5m$ $7m$ To find 'x' choose one calculation: Circle choice $\sqrt{7^2 + 5^2}$ OR $\sqrt{7^2 - 5^2}$ | 9:22                             | 25. A shop checked how may boxed games were sold in December and used this as a basis for the projected sales for the year.  Do you think that this is a good approach? Give a reason for your decision. |  | 9:29                |
| 10. Evaluate V=5p³ when p = 2  | 9:12   | $20. If sin 38 = \frac{5}{x} \text{ find x(to 1dp)}$   | 9:23                             | YES or NO - circle your response. Reason Because of Christmas, December sales would not be representative of the rest of the year.   |  |                     |
|  | 5x8=40                                       | *  | 8.1                              |  |  |                     |
| Total (A)  |  | Total (B)  |                                  | -  | Total (C)  |                     |
| Test Total (A+B+C)   |  | R (0-9)  | Y                                | (10-19)  | G (20-25)  | 1                   |
| . , ,  | I .  | ` /  |                                  | , ,  | 1 - /  |                     |