

Name \_\_\_\_\_

Date \_\_\_\_\_

Class \_\_\_\_\_

| Section A: Numbers & calculating                                           |  | Section B: Algebra & shape, space & measures                                                                           |           | Section C: Using and applying                                                                                                                 |  |
|----------------------------------------------------------------------------|--|------------------------------------------------------------------------------------------------------------------------|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------|--|
| 7.1<br>1. Which is bigger: $\frac{3}{7}$ or $\frac{2}{5}$ ?                |  | 7.6<br>11. If $x = 2$ , calculate the value of:<br>$x^3 + x$                                                           |           | 21.<br>Work out the area of a parallelogram of base 6cm and height 8cm.                                                                       |  |
| 7.1<br>2. Which is bigger: 0.45 or $\frac{2}{5}$ ?                         |  | 7.6<br>12. If $x = -2$ , calculate the value of:<br>$x^3 + x$                                                          |           |                                                                                                                                               |  |
| 7.2<br>3. Increase £30 by 15%                                              |  | 7.7<br>14. Solve: $2x - 5 = 7$                                                                                         |           | 22.<br>Three of the angles of a quadrilateral are $120^\circ$ , $48^\circ$ and $92^\circ$ .<br>What is the size of the 4 <sup>th</sup> angle? |  |
| 7.2<br>4. Decrease £40 by 15%                                              |  | 7.7<br>14. Solve: $3x + 1 = 10$                                                                                        |           |                                                                                                                                               |  |
| 7.3<br>5. Divide £300 in a ratio of 3:7                                    |  | 7.8<br>15. Find the nth term of this sequence<br>1 3 5 7 9 ...                                                         |           | 23.<br>Work out the area of a triangle of base 6cm and height 8cm.                                                                            |  |
| 7.3<br>6. Divide 30 in a ratio of 3:2                                      |  | 7.8<br>16. If $T(n) = 3n - 1$ , what is the 3 <sup>rd</sup> term?                                                      |           |                                                                                                                                               |  |
| 7.4<br>7. If 60 marks is 40%, what is full marks?                          |  | 7.9<br>17. If $y = 3x + 2$ , find the value of $y$ when $x = -2$                                                       |           | 24.<br>If the probability of rain is 0.87, what is the probability of NO rain?                                                                |  |
| 7.4<br>8. If 400ml of milk is used for 8 pancakes, how much is used for 6? |  | 7.9<br>18. $y = 3x + 2$ is the equation of a straight line graph.<br>What is its gradient?                             |           |                                                                                                                                               |  |
| 7.5<br>9. Add: $\frac{1}{3}$ and $\frac{1}{4}$                             |  | 7.21 <u>Use <math>\pi = 3</math></u><br>19. Calculate the area of a circle with radius of 5cm                          |           | 25.<br>Work out the volume of a cuboid 5cm by 3cm by 6cm?                                                                                     |  |
| 7.5<br>10. Work out: $\frac{2}{5}$ of 8                                    |  | 7.21 <u>Use <math>\pi = 3</math></u><br>20. Calculate the length of the circumference of a circle with diameter of 6cm |           |                                                                                                                                               |  |
| Total (A)                                                                  |  | Total (B)                                                                                                              |           | Total (C)                                                                                                                                     |  |
| Test Total (A+B+C)                                                         |  | R (0-9)                                                                                                                | Y (10-19) | G (20-25)                                                                                                                                     |  |