

Name: \_\_\_\_\_

| July 3   | 5-a-day  | Higher |
|--|--|--------|
| <p>A biology textbook has mass 1.1kg to the nearest 100g.</p> <p>What is the greatest possible mass of 10 books?</p>     | <p>A shelf can safely hold 30kg of books.</p> <p>How many books can safety be held by the shelf?</p> |        |
| <p>Simplify</p> $p^2 \times p^{-5}$  | <p>Simplify</p> $(p^2)^5$  |        |
| <p>Solve</p> $3x - 2y = 14$ $x + 2y = 10$  |  |        |
| <p>Write down the equation of the line that is perpendicular to <math>y = 2x + 1</math> that passes through (0, 4)</p>   |  |        |
| <p>Year 7    120<br/>Year 8    150<br/>Year 9    80<br/>Year 10   100</p> <p>Mr Holland wants to survey 30 students.</p> | <p>If he uses a stratified sample, how many year 8 students will he select?</p>                      |        |