




| 14th February  |   | <br>CorbettmOths |    |             |       |    |             |      |    |             |       |    |             |      |    |             |       |    |             |  |
|--|---|---|----|-------------|-------|----|-------------|------|----|-------------|-------|----|-------------|------|----|-------------|-------|----|-------------|--|
| Round 8.19 to one decimal place<br><br><i>8.2</i>  | Round 6.43492 to one decimal place<br><br><i>6.4</i>  |   |    |             |       |    |             |      |    |             |       |    |             |      |    |             |       |    |             |  |
| <p>To pass you will need to answer <math>\frac{3}{4}</math> of the questions correctly.</p>  <p><i>15</i></p> <p><i><math>\frac{3}{4}</math> of 20 = 15</i></p> <p>Mrs Johnson set 6 students a test. The test has 20 questions.</p> | <table> <tr><td>Alan</td><td>14</td><td><i>fail</i></td></tr> <tr><td>Barry</td><td>16</td><td><i>pass</i></td></tr> <tr><td>Carl</td><td>13</td><td><i>fail</i></td></tr> <tr><td>Donna</td><td>19</td><td><i>pass</i></td></tr> <tr><td>Emma</td><td>20</td><td><i>pass</i></td></tr> <tr><td>Fiona</td><td>10</td><td><i>fail</i></td></tr> </table> | Alan  | 14 | <i>fail</i> | Barry | 16 | <i>pass</i> | Carl | 13 | <i>fail</i> | Donna | 19 | <i>pass</i> | Emma | 20 | <i>pass</i> | Fiona | 10 | <i>fail</i> |  |
| Alan   | 14  | <i>fail</i>   |    |             |       |    |             |      |    |             |       |    |             |      |    |             |       |    |             |  |
| Barry  | 16  | <i>pass</i>   |    |             |       |    |             |      |    |             |       |    |             |      |    |             |       |    |             |  |
| Carl   | 13  | <i>fail</i>   |    |             |       |    |             |      |    |             |       |    |             |      |    |             |       |    |             |  |
| Donna  | 19  | <i>pass</i>   |    |             |       |    |             |      |    |             |       |    |             |      |    |             |       |    |             |  |
| Emma   | 20  | <i>pass</i>   |    |             |       |    |             |      |    |             |       |    |             |      |    |             |       |    |             |  |
| Fiona  | 10  | <i>fail</i>   |    |             |       |    |             |      |    |             |       |    |             |      |    |             |       |    |             |  |
|  | Work out which students passed the test<br><br><i>Barry Donna Emma</i>  |   |    |             |       |    |             |      |    |             |       |    |             |      |    |             |       |    |             |  |
|  <p><i><math>\frac{3}{4}</math> of 60</i></p> <p><i><math>60 \div 4 = 15</math></i></p> <p><i><math>15 \times 3 = 45</math></i></p>   | <p>This is a biased coin. The probability of a head is <math>\frac{3}{4}</math>. It is flipped 60 times.</p> <p>How many heads do you expect?<br/><br/><i>45</i></p>  |   |    |             |       |    |             |      |    |             |       |    |             |      |    |             |       |    |             |  |
| <p><math>x = 7</math></p> <p>Work out the value of</p> $\frac{(1+x)^2}{2}$   | <p><i><math>\frac{(1+7)^2}{2}</math></i></p> <p><i><math>\frac{8^2}{2} = \frac{64}{2}</math></i></p> <p><i>32</i></p>   |   |    |             |       |    |             |      |    |             |       |    |             |      |    |             |       |    |             |  |