



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



Find the mode(s) of each of these data sets:

- |                        |          |                            |                |                                 |                   |
|------------------------|----------|----------------------------|----------------|---------------------------------|-------------------|
| a) 7, 10, 2, 7, 6      | <b>7</b> | e) 6, 4, 1, 2, 3, 1, 2, 1  | <b>1</b>       | i) 11, 12, 1, 2, 3, 1, 21, 4, 1 | <b>1</b>          |
| b) 1, 6, 11, 6, 10, 7  | <b>6</b> | f) 8, 12, 14, 9, 6, 9, 11  | <b>9</b>       | j) 6, 12, 14, 6, 3, 14, 13, 11  | <b>6 &amp; 14</b> |
| c) 5, 7, 1, 14, 7, 7   | <b>7</b> | g) 18, 4, 7, 6, 24, 8, 17  | <b>No Mode</b> | k) 11, 8, 6, 5, 14, 3, 17, 1    | <b>No Mode</b>    |
| d) 2, 4, 6, 8, 8, 8, 5 | <b>8</b> | h) 6, -6, 2, 3, -1, -6, -2 | <b>-6</b>      | l) 6, -6, 2, 2, -1, 6, -16, 6   | <b>6</b>          |

Find the range of each of these data sets:

- |                               |           |                              |           |
|-------------------------------|-----------|------------------------------|-----------|
| a) 14, 17, 19, 8, 9, 1, 5     | <b>18</b> | f) 17, 12, 10, 6, 3, 2, 9    | <b>15</b> |
| b) 7, 16, 21, 10, 18, 14      | <b>14</b> | g) 17, 21, 15, 10, 16, 32    | <b>22</b> |
| c) 7, 12, 3, 5, 7, 6, 1, 2, 5 | <b>11</b> | h) 7, 9, -3, 4, 6, 0, -1, 4  | <b>12</b> |
| d) 1, 8, 11, 4, 2, 4, 5, 3, 7 | <b>10</b> | i) 2, -1, -8, -3, 6, 8, 4    | <b>16</b> |
| e) 53, 24, 16, 35, 41, 17     | <b>37</b> | j) -14, 6, -11, -17, -15, 21 | <b>38</b> |

Find the mean of each of these data sets.

- |                        |          |  |           |
|------------------------|----------|--|-----------|
| a) 5, 7, 8, 4          | <b>6</b> | f) 61, 41, 27, 63, 71, 61, 26              | <b>50</b> |
| b) 6, 2, 9, 3          | <b>5</b> | g) 33, 76, 55, 32, 53, 33                  | <b>47</b> |
| c) 3, 8, 7, 5, 9, 4    | <b>6</b> | h) 6.2, 5.1, 3.4, 9.2, 6.1                 | <b>6</b>  |
| d) 8, 4, 6, 13, 9      | <b>8</b> | i) 1.2, 10.5, 6.1, 8.8, 4.2, 7.2, 3.5, 6.5 | <b>6</b>  |
| e) 3, 15, 2, 7, 11, 10 | <b>8</b> | j) -9, 7, 4, 6, -1, -3, 5, -1              | <b>1</b>  |

**Exam question:**

6 boys and 6 girls from a class run 100m.  
 The times taken, to the nearest second, for each girl are: 16, 14, 13, 15.5, 14.5, 17  
 The mean of the boys times is 15.5 seconds.

Gloria says that "on average, the girls in the class are faster than the boys."  
 Is she correct?

**Mean of girls = 15 so correct**

