Algebra 2
12.3 Measures of Central Tendency Worksheet

Find the mean, median, and mode of each data set.

1.) Touchdowns Scored:
   1, 3, 4, 4, 3

2.) Distance from school (mi):
   0.5, 3.9, 4.1, 5, 3

3.) Average speed (mi/hr):
   36, 59, 47, 56, 67

4.) Price per pound:
   $30, $8, $2, $5, $6

5.) Daily high temperatures:
   74, 69, 78, 80, 92

6.) Number of volunteers:
   24, 22, 35, 19, 35

Find the value of x such that the data set has the given mean.

7.) 11, 12, 5, 3, x; mean 7.4

8.) 55, 60, 35, 90, x; mean 51

9.) 6.5, 4.3, 9.8, 2.2, x; mean 4.8

10.) 100, 112, 98, 235, x; mean 127

11.) 1.2, 3.4, 6.7, 5.9, x; mean 4.0

12.) 34, 56, 45, 29, x; mean 40

13.) One golfer's scores for the season are 88, 90, 86, 89, 96 and 85. Another golfer's scores are 91, 86, 88, 84, 90, and 83. What are the range and mean of each golfer's scores? Use your results to compare the golfer's skills (which one is better, hint: the lower the score the better)
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Find the range and mean of each data set. Use your results to compare the two data sets.

14.) Set A: 5, 4, 7, 2, 8
   Set B: 3, 8, 9, 2, 0

15.) Set C: 1.2, 6.4, 2.1, 10, 11.3
   Set D: 8.2, 0, 3.1, 6.2, 9

16.) Set E: 12, 12, 0, 8
   Set F: 1, 15, 10, 2

17.) Set G: 22.4, 20, 33.5, 21.3
   Set H: 6.2, 15, 50.4, 28

18.) The heights of a painter’s ladders are 12ft, 8ft, 4ft, 3ft, and 6ft. What are the mean, median, mode and range for of the ladder heights?

Find the mean, median, mode, and range of each data set after you perform the given operation.

19.) 4, 7, 5, 9, 5, 6; add 1

20.) 23, 21, 17, 15, 12, 11; subtract 3

21.) 1.1, 2.6, 5.6, 5, 6.7, 6; add 4.1

22.) 5, 2, 8, 6, 11, 1; divide by 2

23.) 12.1, 13.6, 10, 9.7, 13.2, 14; divide by 0.5

24.) 3.2, 4.4, 6, 7.8, 3, 2; subtract -4

25.) The lengths of Ana’s last six phone calls were 3 min, 19 min, 2 min, 44 min, 120 min, and 4 min. Greg’s last six phone calls were 5 min, 12 min, 4 min, 80 min, 76 min, and 15 min. Find the mean, median, mode, and range of Ana’s calls and Greg’s calls. Use your results to compare each person’s phone call habits.
26.) The table shows a basketball player’s scores in five games. How many points must the basketball player score in the next game to achieve an average of 13 points per game?

<table>
<thead>
<tr>
<th>Game</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Westlake</td>
<td>10</td>
</tr>
<tr>
<td>Davis</td>
<td>14</td>
</tr>
<tr>
<td>Mason</td>
<td>8</td>
</tr>
<tr>
<td>Leeberg</td>
<td>18</td>
</tr>
<tr>
<td>Warren</td>
<td>11</td>
</tr>
</tbody>
</table>

27.) You and a friend weigh your backpack every day for a week. The results are shown in the table. Find the mean, median, mode, and range of the weights of your backpack and your friend’s backpack. Use your results to compare the backpack weights.

<table>
<thead>
<tr>
<th>Day</th>
<th>Yours</th>
<th>Friend</th>
</tr>
</thead>
<tbody>
<tr>
<td>Monday</td>
<td>13.5</td>
<td>12.6</td>
</tr>
<tr>
<td>Tuesday</td>
<td>12.2</td>
<td>13</td>
</tr>
<tr>
<td>Wednesday</td>
<td>13.2</td>
<td>12.8</td>
</tr>
<tr>
<td>Thursday</td>
<td>11.6</td>
<td>11.6</td>
</tr>
<tr>
<td>Friday</td>
<td>10.5</td>
<td>12.5</td>
</tr>
</tbody>
</table>

28.) Over six months, a family’s electric bills averaged $55 per month. The bills for the first five months were $57.60, $60, $53.25, $50.75, and $54.05. What was the electric bill in the sixth month? Find the mean, median, mode and range of the six electric bills.