QPOEE Quiz #2 REVIEW over MMMRO

Access Criteria: Communicate patterns in data using mean, median, mode, range, etc.

Part A: After reading the definition (on the far right side of the table), write the vocabulary term it is describing and explain how to calculate it.

<table>
<thead>
<tr>
<th>Vocabulary Term</th>
<th>Explain how to calculate</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>mean</td>
<td>2. Add up all numbers and ( \div ) total by the # of numbers</td>
<td>The average of all of the data collected.</td>
</tr>
<tr>
<td>median</td>
<td>4. Put #s in order from least to greatest, choose middle #; if 2 #s, # values # \div by 2</td>
<td>The middle value of the data in numerical order.</td>
</tr>
<tr>
<td>mode</td>
<td>6. Count the numbers that occur most frequently; can be more than 1 # or may be none</td>
<td>The numerical value that occurs most often in the data.</td>
</tr>
<tr>
<td>range</td>
<td>8. subtract the lowest value from the highest</td>
<td>The difference between the largest and smallest values from the data.</td>
</tr>
<tr>
<td>outlier</td>
<td>10. the number that is most unlike other numbers in data</td>
<td>The numbers that 'lie outside' most of the other values in the set.</td>
</tr>
</tbody>
</table>

Part B: Look at the honeybee flights, in miles, below. Calculate the mean, median, mode, range, and outlier of the data listed below. If your answer is not a whole number, round it to the nearest tenth.

3 miles, 5 miles, 2 miles, 10 miles, 4 miles, 12 miles, 3 miles, 14 miles, 30 miles, 6 miles, 7 miles

Show your work, below.

mean:

\[
3 + 5 + 2 + 10 + 4 + 12 + 3 + 14 + 30 + 6 + 7 = 96 \div 11 = 8.727272
\]

median:

2, 3, 3, 4, 5, 6, 7, 10, 12, 14, 30

median:

6

mode:

3 shows up twice; no other \# is repeated

mode:

3

range:

30 - 2 = 28

range:

28

outlier

All values are between 2 \& 14; 30 is unlike all other data

outlier

15. 30