#____ Scientist: Key

Date: ____-____-____ HR: _____

QPOEE Quiz #2 REVIEW over MMMRO

Success 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.

Vocabulary Term	Explain how to calculate	Definition
1. mean	2. Add up all numbers and ÷ total by the # of numbers	The average of all of the data collected.
3. median	4. Put #s in order from least to greatest, choose middle #, if 2 #s, + values & ÷ by 2	The middle value of the data in numerical order.
5. mode	6. Count the numbers that occur most frequently; can be more than 1 # or may be none	The numerical value that occurs most often in the data.
7. range	8. subtract the lowest value from the highest	The difference between the largest and smallest values from the data.
9. outlier	10. the number that is most unlike other numbers in data	The numbers that 'lie outside' most of the other values in the set.

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.

Your Answers

(Don't forget to label your answers!)

mean:

3+5+2+10+4+12+3+14+30+6+7 = 96 ÷ 11 = 8.727272

11. 8.7

median:

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

12. 6

mode:

3 shows up twice; no other # is repeated

13. 3

range:

30 − 2 = 28

$\begin{array}{r} 30 \\ -2 \\ \hline 28 \end{array}$

14. 28

outlier

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

15. 30