

MAKE THE DATA FIT

Name: _____

This is an effort based assignment. Please follow the directions completely before you begin:

*You may have no distractions: no music, no television, no conversations, no help, no nothing.

*You do NOT need to work on these problems in order.

*Set a timer for 15 minutes.

*When the timer goes off, grade yourself as follows: (please circle one)

5 - I worked hard for 15 minutes, had no distractions, and did my best to solve the problems.

4 - I worked pretty hard for 15 minutes, but may have got up for a drink of water, been off-task a bit, or been a bit distracted.

3 - I got frustrated and had trouble focusing for 15 minutes, I had too many distractions, or my effort was mediocre.

2 - I sat down for 15 minutes but my effort was minimal and I will admit I didn't really try very hard or was way too distracted.

1 - I worked off and on, but not for 15 minutes straight, and did not put in much effort.

WHEN YOU ARE DONE and AFTER YOU HAVE GRADED YOURSELF, you may work on these problems more and even work with a parent or other puzzle-minded person if you'd like, but it is not required. Your grade for this assignment is the actual score that you give yourself using the above requirements, not upon completion of the assignment. This is brain math-aerobics!

Ready? Go!

Give a set of **six** data values that "fit" each situation. Show all of your work on another sheet of paper!

1. Mean 500
 Median 50
 Mode None

Data: _____

2. Mean 100
 Median 250
 Mode None

Data: _____

3. Mean 10
 Median 12
 Mode: 12
 Range: 12

Data: _____

4. Mean: 25
 Median 25
 Mode: 10 and 30
 Range: 40

Data: _____

5. Mean 100
 Median 80
 Mode: none
 Range: 160

Data: _____

6. Mean: 30
 Median 30
 Mode: 30
 Range: 30

Data: _____

*two more questions on the other side

Answer the questions thoroughly using examples as needed:

7. A newspaper article states that the median price of a house in a certain neighborhood is \$120,000 but the realtor tells you that the mean price is \$250,000. How can both statements be true? You must give an example data set to prove your point.

8. The median grade on a test was 85. The mean grade on the same test was 72. What does the information tell you about the grades? Give example data sets or create a graph to show your thinking.