Date: _____   Score: _____

Dice Data

In this activity, we will use a regular six-sided die to practice our understanding of the Mean and Median.

- **MEAN**, or the average of a set of data.
- **MEDIAN**, the middle number in a set of data

INSTRUCTIONS: Use a dice or online dice roller for this activity. Roll the die 10 times, then put the numbers in order from smallest to largest in the boxes below.

IN ORDER OF ROLL:

1:_____   6:_____
2:_____   7:_____
3:_____   8:_____
4:_____   9:_____
5:_____   10:_____

IN CONSECUTIVE ORDER:

1:_____   6:_____
2:_____   7:_____
3:_____   8:_____
4:_____   9:_____
5:_____   10:_____

QUESTIONS:

- Find the mean. _____
- What is the median? _____
- Find the mean of the first 5 rolls _____
- What is the median of the last 5 rolls? _____

AVERAGES WORD PROBLEMS

1. A student scores 85, 90, 80, 90, and 100 on his math tests. What is his average score on the tests?

2. The average of three numbers is 6. When one number is removed from the list, the average is 5. What is the number that was removed from the list?

3. A student scored 75, 70, 85, 90, and 85 on the first tests he took. After he took his sixth test, the average is 85. What did he score on the sixth test?

4. The recorded temperatures in a country during a period of 4 days was 79 degrees, 78 degrees, 75 degrees, and 76 degrees. A city in this country recorded temperatures of 75 degrees, 70 degrees, 77 degrees, and 74 degrees. What is the difference in average temperatures for the country and the city?

5. All of the members of the Harvey family are very tall. Their heights are 81 inches, 78 inches, 71 inches, 75 inches, and 70 inches. What is the average height of the 5 Harveys?

6. Timothy scored 77, 76, and 78 on his last three exams. After the fourth exam, his average score was 85. What was his score on the fourth exam?

7. Tracy mowed lawns for 2 hours and earned $7.40 per hour. Then, she washed windows for 3 hours and earned $6.50 per hour. What were Tracy's average earnings per hour for the day?

8. After taking 3 geology quizzes, your average is 72. What must your average be on the next five quizzes to increase your average to 77?