

Unit 8: Data Sets, Distributions, and Sampling

PRACTICE • SET 2

Name: _____ Date: _____

Solve each problem and write your final answer on the line provided. Show your work where needed.

1. Find the mean of this data set: 4, 8, 6, 10, 2.

Answer: _____

2. Find the median of this data set: 12, 7, 15, 9, 20, 11, 5.

Answer: _____

3. Find the mode of this data set: 3, 7, 3, 9, 7, 3, 5.

Answer: _____

4. Find the range of this data set: 18, 25, 14, 30, 22.

Answer: _____

5. A data set has these values: 10, 10, 12, 14, 14. Find the mean.

Answer: _____

6. Find the median of this data set: 6, 2, 9, 4 (an even number of values, so average the two middle values).

Answer: _____

7. Find the interquartile range (IQR) of this data set: 2, 4, 6, 8, 10, 12, 14, 16. The lower quartile is 5 and the upper quartile is 13.

Answer: _____

8. Find the mean absolute deviation (MAD) of this data set with mean 5: 3, 5, 5, 7. (Average the distances of each value from 5.)

Answer: _____

9. A spinner has 8 equal sections numbered 1 through 8. What is the probability of landing on a number greater than 5? Give your answer as a fraction.

Answer: _____

10. A bag has 5 red, 3 blue, and 2 green marbles. What is the probability of drawing a blue marble? Give your answer as a fraction.

Answer: _____

11. In a survey, a sample of 40 students found that 10 walk to school. Based on this sample, how many of the 200 students in the whole school would you predict walk to school?

Answer: _____

12. A number cube (die) is rolled once. What is the probability of rolling an even number? Give your answer as a fraction.

Answer: _____