

Unit 8: Data Sets, Distributions, and Sampling

CONCEPT

Name: _____ Date: _____

Solve each problem and write your short answer on the line. Show the single value, fraction, or word asked for.

1. Find the mean (average) of this data set: 4, 6, 8, 10, 2. Find the median of this data set: 7, 3, 9, 5, 1.
2.

Answer: _____

Answer: _____

3. Find the median of this data set: 2, 4, 6, 8.

Answer: _____

4. Find the mode of this data set: 3, 5, 5, 2, 7.

Answer: _____

5. Find the range of this data set: 12, 4, 9, 7.

Answer: _____

6. A bag holds 3 red marbles and 5 blue marbles. If you pick one marble without looking, what is the probability it is red? Give a fraction.

Answer: _____

7. You roll one fair number cube with faces labeled 1 through 6. What is the probability of rolling a 4? Give a fraction.

Answer: _____

8. The mean of a data set is 10. One value in the set is 7. What is the absolute deviation of that value from the mean (the distance $|7 - 10|$)?

Answer: _____

9. In a sample of 20 students, 8 said they walk to school. What fraction of the sample walks to school? Give the fraction in simplest form.

Answer: _____

10. A histogram groups data into 4 bins with these frequencies: 3, 5, 2, and 4. How many data values are there in all?

Answer: _____

11. A dot plot shows 4 dots above the number 5, 2 dots above 6, and 1 dot above 7. How many data values are shown in all?

Answer: _____

12. A spinner has 4 equal sections: 1 red and 3 green. What is the probability the spinner does NOT land on red? Give a fraction.

Answer: _____