

Unit 8: Data Sets, Distributions, and Sampling

PRACTICE

Name: _____ Date: _____

Solve each problem and write your exact answer (a number, fraction, or short value) on the line provided. Show your work where helpful.

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

Answer: _____

2. Find the median of this data set: 12, 7, 3, 9, 15, 6, 11.

Answer: _____

3. Find the mode of this data set: 5, 3, 8, 3, 9, 3, 7, 8.

Answer: _____

4. Find the range of this data set: 22, 15, 30, 8, 19.

Answer: _____

5. The five values 10, 14, 18, 20, 13 have already been ordered by size as 10, 13, 14, 18, 20. Find the median.

Answer: _____

6. Find the mean of this data set: 3, 5, 5, 7, 9, 13.

Answer: _____

7. A data set has 6 values that add up to a total of 54. Find the mean.

Answer: _____

8. Find the interquartile range (IQR) of this data set: 3, 5, 7, 8, 12, 14, 18, 20. ($Q_1 = 6$, $Q_3 = 16$.)

Answer: _____

9. A bag has 3 red marbles, 5 blue marbles, and 2 green marbles. If you pick one marble at random, what is the probability it is blue? Give your answer as a fraction in lowest terms.

Answer: _____

10. A fair six-sided number cube is rolled once. What is the probability of rolling a number greater than 4? Give your answer as a fraction in lowest terms.

Answer: _____

11. A survey samples 40 students out of a total of 600 students in a school. What fraction of the whole population is in the sample? Give your answer as a fraction in lowest terms.

Answer: _____