



Statistics: Real World Practice

Name: _____

Grade: 8

Date: _____

Practice statistics concepts with real-life scenarios. Find mean, median, mode, range, interpret scatter plots, and two-way tables. Try the interactive mini-quizzes for instant feedback!

⚡ Quick Check

1) What is the average of a data set called?

2) Which graph shows relationship between two variables?

3) What is the middle value of a data set called?

Part 1 · Data & Measures

DATA

1. Find the mean of: 8, 12, 10, 6, 14.

2. Find the median of: 7, 9, 12, 15, 18.

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

4. Find the range of: 3, 8, 12, 15.

5. What is the mean of: 20, 25, 30, 35?

6. What is the median of: 4, 6, 8, 10?

Part 2 · Scatter Plots

SCATTER

- 7. What does a positive correlation look like on a scatter plot?
- 8. What does a negative correlation look like?
- 9. What does no correlation look like?
- 10. If height and shoe size are plotted, what type of correlation?
- 11. If hours studied and test score are plotted, what type of correlation?
- 12. If age and favorite color are plotted, what type of correlation?

Part 3 · Two-Way Tables

TABLES

- 13. Fill in a two-way table for students who play soccer and basketball.
- 14. How many students play only soccer?
- 15. How many play both sports?
- 16. How many play neither sport?
- 17. What percent play basketball?

18. What percent play soccer?

Part 4 · Real World Practice

REAL WORLD

19. School Survey

A survey finds 12 students walk to school, 18 take the bus, and 10 ride bikes. What is the mode of transportation?

20. Test Scores

Test scores: 85, 90, 88, 92, 85, 87. What is the mean score?

21. Shoe Sizes

Shoe sizes: 6, 7, 8, 7, 9, 7. What is the mode?

22. Scatter Plot

A scatter plot shows hours of sleep and alertness. What type of correlation is expected?

23. Two-Way Table

In a class, 8 students play soccer only, 6 play basketball only, 4 play both, and 2 play neither. How many students play a sport?

Answer Key

1. 10
2. 12
3. 7
4. 12
5. 27.5
6. 7
7. Points go up to the right
8. Points go down to the right
9. No pattern
10. Positive
11. Positive
12. None
13. Fill table
14. 8
15. 4
16. 2
17. 50%
18. 60%
19. bus
20. 87.83
21. 7
22. positive
23. 18

Each question uses statistics in a real-life scenario. Encourage students to show work and explain reasoning.