

NAME _____

DATE _____

Module 19 Analyzing Data and Statistics
Lesson 1 Finding Mean, Median, and Mode

**independent
practice**

Find the mean, median, and mode of the data sets. Round answers to the nearest hundredth.

1. 2, 7, 8, 9, 9, 12, 17

2. 14, 38, 26, 26, 26, 38, 38, 92

3. 84, 96, 73, 32, 57, 99, 83, 83, 73, 79, 95, 90,
80, 79, 94, 73, 84, 88, 92, 65, 67

4. 3, 3, 3, 3, 3

5. 72, 77, 94, 73, 82, 65, 91, 88, 72, 82

6. 22, 25, 26, 21, 25, 22, 23, 22, 23

7. $\frac{5}{6}$, $\frac{2}{3}$, $\frac{1}{4}$, $\frac{1}{3}$, $\frac{1}{4}$

8. 8.2, 9.7, 14.3, 17.6, 9.7, 4.3, 7.8, 6.9,
8.8, 9.7

9. $3\frac{1}{2}$, $12\frac{2}{3}$, $4\frac{3}{5}$, $8\frac{9}{10}$, $12\frac{2}{3}$, $4\frac{2}{5}$

Use this set of data to answer Problems 10–13.

Length in miles of the ten longest car trips taken by the Riveras last year: 418, 391,
371, 360, 345, 350, 360, 349, 415, 391

10. Make a stem-and-leaf plot.

11. Find the mean. _____

12. Find the median. _____

13. Find the mode. _____

Use this set of data to answer Problems 14–16. Round answers to the nearest cent.

Weekly summer-job salaries for Mrs. Grumbacher's 18 homeroom students:
\$293, \$431, \$229, \$460, \$241, \$357, \$260, \$238, \$312, \$290, \$399, \$245,
\$329, \$250, \$309, \$251, \$255, \$306

14. Find the mean _____ 15. Find the median. _____
16. Find the mode. _____

Use this set of data to answer Problems 17–20. Round answers to the nearest thousandth.

Top 15 batting averages for the American League: 0.301, 0.304, 0.306, 0.349,
0.321, 0.312, 0.301, 0.340, 0.333, 0.303, 0.304, 0.333, 0.308, 0.314, 0.320

17. Make a stem-and-leaf plot. 18. Find the mean. _____

19. Find the median. _____ 20. Find the mode. _____

Use this set of data to answer Problems 21–24. Round answers to the nearest tenth.

Grades in Mrs. Morris's kindergarten class: 92, 98, 75, 83, 83, 90, 70, 82, 88, 75

21. Make a stem-and-leaf plot. 22. Find the mean. _____

23. Find the median. _____ 24. Find the mode. _____

Journal

1. Find five numbers between one and ten, inclusive, whose mean is seven and whose median is seven. No number may be used more than one time.
2. Find five numbers between one and ten, inclusive, whose mean is seven and whose median is eight. No number may be used more than one time.
3. Mickey is looking for a new house in a certain neighborhood. The last four houses in the neighborhood sold for \$67,300, \$125,000, \$78,000, and \$69,500. When Mickey is bargaining with the real estate agent, how could he describe the average selling price to his advantage? How should the real estate agent describe the average selling price?
4. Why is the mean not the best measure of central tendency to use to describe the following data set: 1, 3, 4, 4, 27.

Cumulative Review

Write, in slope-intercept form, the equation of the line that satisfies the following conditions:

1. slope = 4, yintercept = -3 .

3. passes through (4, 6) and has a slope of $-\frac{2}{3}$.

5. passes through (2, 1) and (0, 7).

7. passes through $(-1, 2)$ and $(3, -6)$.

9. passes through (1, 8) and is parallel to the line whose equation is $y = -2x - 6$.

2. slope = $\frac{1}{2}$, yintercept = 6.

4. passes through $(-2, 3)$ and has a slope of 6.

6. passes through (0, 0) and $(-5, -8)$.

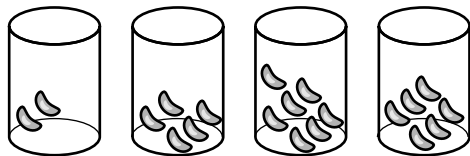
8. passes through (5, 6) and $(-3, -4)$.

10. passes through $(-2, -3)$ and is perpendicular to the line whose equation is $2x - 4y = 5$.

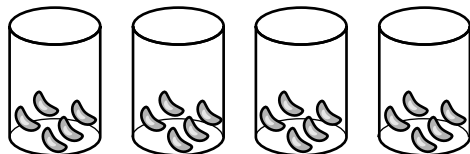
Manipulatives

Use cups and beans to find the mean of the following set of data: 2, 5, 7, 6.

Use four cups. Place two beans in the first cup, five in the second, seven in the third, and six in the fourth.



Redistribute the beans so that each cup contains the same number of beans.



The mean is five.

Use cups and beans to find the mean of each set of data.

1. 3, 5, 4 _____

2. 1, 5, 7, 7, 5 _____

3. 6, 2, 3, 1 _____

4. 5, 2 _____