

Name: _____



PRACTICE



TUTORIAL

Practice & Problem Solving



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Multimedia



In 6–8, use the data to answer the questions.

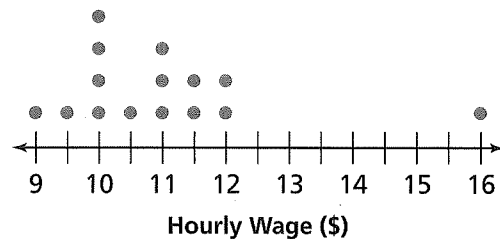
Each of five different stores sell a quart of milk for one of the following prices: \$1.50, \$1.55, \$1.80, \$1.70, \$1.50.

6. What are the mean, median, and mode of the data?
7. Which measure of center best describes these data? Which measure of variability?
8. Find the best measure of variability for these data. Describe the variability.

In 9–11, use the dot plot at the right.

The dot plot shows the hourly wages of cashiers at a supermarket.

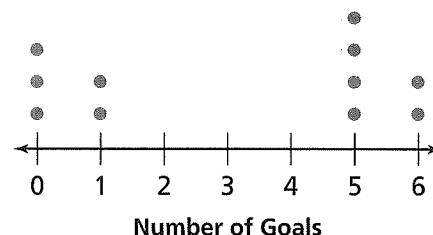
Cashiers' Wages



9. a. Is the median, mean, or mode the best measure of center for these data? Explain.

b. Find that measure of center.
10. Identify a good measure of variability for these data. Find the value.
11. Write a sentence describing the variability of the wages.
12. **Critique Reasoning** Hayden looks at the dot plot. He believes that the data set contains outliers and argues that the best measure of variability is the IQR because the median is a good measure to describe a data set that contains outliers. Is Hayden correct? Explain.

Total Goals at Hockey Games



In 13–16, use the table at the right.

The table shows measures of center based on 5 data points for attendance at a national ice skating competition.

Mean	Median	Mode
14,000	13,000	12,500



13. Vocabulary What is the term and the value of the middle number of the data set?

14. Make Sense and Persevere Which value in the data set occurs at least twice? Can it occur 3 times? Explain.

15. Reasoning Why must the other two numbers in the data set be greater than or equal to 13,000?

16. Model with Math What must be the sum of the two remaining numbers, x and y ? Write an equation to show how to find this sum.

In 17 and 18, use the table.

Game Scores for the Bravo Bowling Team									
Jessie	150	145	181	235	196	211	204	221	185
Sam	186	187	192	195	194	157	157	162	200



17. Be Precise The coach needs to choose the top bowler for the next meet. If the coach bases her decision on the player with the best average, whom should she choose? Justify your answer using measures of center.

18. Higher Order Thinking If the coach bases her decision on the player who is most consistent, whom should she choose? Justify your answer using measures of variability.

Assessment Practice

19. The table at the right shows the winning bowling scores during the last five bowl-a-rama events. Choose Yes or No to answer the questions about the data.

Winning Scores				
121	159	146	132	149

19a. Are there outliers in the data?

☐ Yes ☐ No

19b. Does the mean best describe the center?

☐ Yes ☐ No

19c. Does the MAD, 11.92 points, best describe the variability?

☐ Yes ☐ No

19d. Does the IQR, 27.5 points, best describe the spread?

☐ Yes ☐ No

