

NAME \_\_\_\_\_ DATE \_\_\_\_\_ PERIOD \_\_\_\_\_

# Lesson 6 Skills Practice

$16, 16, 16 | 17, 18, 19, 19, 19, 20, 20, 20, 21$   
 $16.5$   $Q_1$   $Q_3$   $20$   
median

## Analyze Data Distributions

1. AGES The graph shows the ages of people in a play.

a. Describe the shape of the distribution. Identify any clusters, gaps, peaks, or outliers.

no gaps, no outliers,  
peaks @ 16, 18, 20  
clusters between 16 and 21.



$20 - 16.5$   
Not symmetrical.

b. Describe the center and spread of the distribution. Justify your response based on the shape of the distribution.

Median: 18  
IQR: 3.5

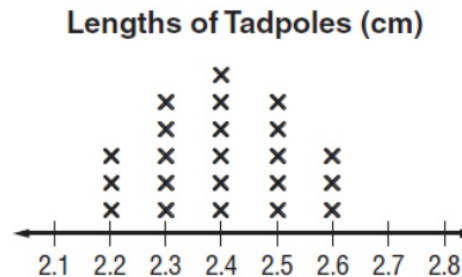
$$2.2, 2.2, 2.2, 2.3, 2.3, 2.3, 2.3, 2.3, 2.4, 2.4, 2.4, 2.4, 2.4, 2.4, 2.5, 2.5, 2.5, 2.5, 2.5, 2.5, 2.6, 2.6, 2.6$$

$$= \frac{52.8}{22} = 2.4$$

2. SCIENCE The graph shows the lengths of tadpoles in a small puddle.

- a. Describe the shape of the distribution. Identify any clusters, gaps, peaks, or outliers.

**The distribution is symmetric. The data are clustered between 2.2 and 2.6. There are no gaps and the peak is at 2.4. There are no outliers.**



$$\frac{3(.2) + 5(.1) + 6(0) + 5(.1) + 3(.2)}{22} = .1$$

- b. Describe the center and spread of the distribution. Justify your response based on the shape of the distribution.

**The distribution is symmetric, so the mean and mean absolute deviation are appropriate measures to use. The data are surrounded by the mean of 2.4. The spread of the data around the center is 0.1375.**