

LESSON
12•3
Picturing Ratios


The following pictograph shows how the 785 students at Windward Academy responded to a survey about the activities they thought were the most summer fun.

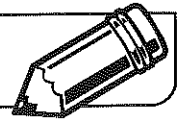
Pictograph of Summer Fun Data

Swimming	
Traveling	
Organized Sports	
Bike Riding	
Reading	
Other	

Each represents 20 students.

Use the pictograph to answer the questions.

- How many would represent 100 students? _____
- Which activity is the most popular for students at Windward Academy? _____
- Which activity is about $\frac{1}{2}$ as popular as traveling? _____
- Which activity is five times more popular than reading? _____
- Explain how using a pictograph to solve simple ratio problems is different from using only numbers. Use an example to support your explanation.

LESSON
12•3**More Ratios**

1. There are 12 children on a bus. In all, 50 people are on the bus. Express the ratio of children to all people on the bus.
 - a. With words: _____ people on the bus are children.
 - b. With a fraction: _____ of the people on the bus are children.
 - c. With a percent: _____ of the people on the bus are children.
 - d. With a colon: The ratio of children to all people on the bus is _____.

2. In Mrs. Horton's fifth-grade class, 6 students own a cat. In all, 20 students own pets. Express the ratio of cat owners to all pet owners in the class.
 - a. With words: _____ pet owners are cat owners.
 - b. With a fraction: _____ of all pet owners are cat owners.
 - c. With a percent: _____ of all pet owners are cat owners.
 - d. With a colon: The ratio of cat owners to all pet owners is _____.

3. In a survey about favorite flavors of ice cream, 8 people said they liked chocolate ice cream best. A total of 24 people were surveyed. Express the ratio of people who chose chocolate ice cream as their favorite to all the people surveyed.
 - a. With words: _____ people surveyed prefer chocolate.
 - b. With a fraction: _____ of the people surveyed prefer chocolate.
 - c. With a percent: _____ of the people surveyed prefer chocolate.
 - d. With a colon: The ratio of people who prefer chocolate to all the people surveyed is _____.