MAIN IDEA

 Sketch and analyze circle graphs.

BUILD YOUR VOCABULARY (pages 169–170)

A circle graph is used to of a whole.

data that are parts

EXAMPLE Sketch Circle Graphs

D ENTERTAINMENT The table shows how many hours a group of teenagers spent playing video games in one week. Sketch a circle graph to display the data. Remember to label each section of the graph and give the graph a title.

Time Spent Playing Video Games		
Time (h)	Percent	
0–1	35	
1–2	10	
2–3	25	
3 or more	30	

• Write a fraction to represent each percent.

$$35\% = \frac{35}{100}$$
 or

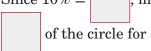
$$10\% = \frac{10}{100}$$
 or

$$25\% = \frac{25}{100}$$
 or

$$30\% = \frac{30}{100}$$
 or

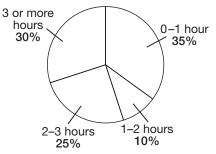
mark

• Since 10% =



Time Spent Playing Video Games

"1-2 hours." Since 30% =mark a section



3 times as big as the section

for "1-2 hours" for "3 or more hours." Since 25% =

of the circle for "2-3 hours." The remaining mark

portion of the circle should be about 35% or for "0-1 hour."

Check Your Progress SPORTS

The table shows students' choices for favorite sport. Sketch a circle graph to display the data.

Favorite Sport		
Sport	Percent	
Baseball	30	
Tennis	19	
Soccer	9	
Hockey	10	
Basketball	12	
Football	20	

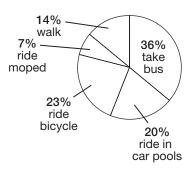
EXAMPLES Analyze Circle Graphs

TRANSPORTATION The circle graph shows which method of transportation students use to get to Martin Luther King, Jr., Middle School.

REMEMBER IT (

When you read and interpret a circle graph, it is helpful to remember that the percents of all the sections add up to 100%.

Method of Transportation Used by Students to Arrive at School



🚺 Which method of transportation do most students use?

The largest section of the graph is the section that So, the method of represents transportation most students use is the

represent

ORGANIZE IT

In your Foldable, write the similarities and differences among circle graphs, bar graphs, and line graphs. Think about how each kind of graph is constructed.

Fraction	Percent	Decimal
	→ 50% —	→ 0.5
2		

How does the number of students who ride mopeds to school compare to the number of students who take the bus?

The percent of students who ride a moped is

and the

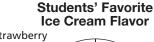
percent of students who ride the bus is

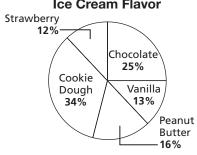
The number of students who take the bus is about times the number of students who ride a moped.

Check Your Progress

ICE CREAM The circle graph shows which flavor of ice cream students consider their favorite.

a. Which flavor of ice cream do most students prefer?





b. Which two flavors are the least favorite among these students?

HOMEWORK **ASSIGNMENT**

Page(s):

Exercises:

c. How does the number of students who prefer peanut butter ice cream compare to the number of students who prefer cookie dough ice cream?

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