Name _____ Date _____ Class _____

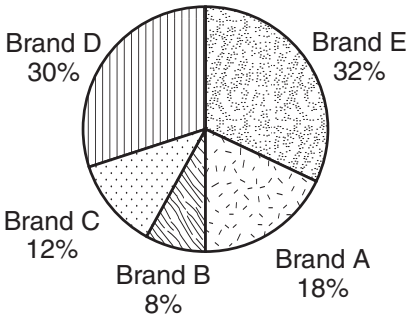
SKILL 85

Skills Readiness

Circle Graphs

Circle graphs are used to present data as a fraction or percentage of a total. When you know the percentage of the data that a certain category represents, you can find the number of items by multiplying the percentage (converted to a decimal) times the total number.

Example: The circle graph shows the distribution of cars manufactured by certain makers found in a high school parking lot one day. The total number of cars is 350.



How many of the cars are made by Brand C?

Multiply: $0.12 \times 350 = 42$

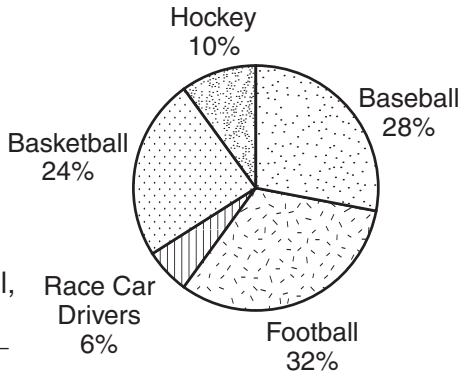
How many of the cars are made by Brand E or Brand A?

First add the two percentages ($32 + 18 = 50\%$), then multiply by the total.

$0.50 \times 350 = 175$

Practice on Your Own

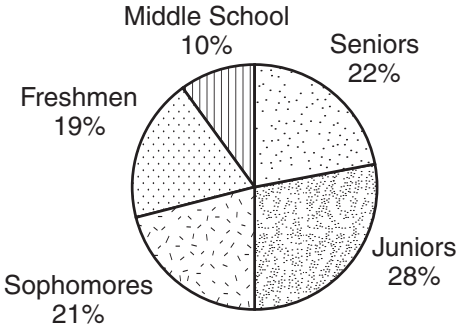
John has a collection of 600 sports cards. The circle graph shows the distribution by sport of the cards John owns.



1. How many of John's cards are baseball cards? _____
2. How many of John's cards are not baseball cards? _____
3. What percentage of John's cards are either baseball, basketball, or football cards? _____
4. How many of John's cards are either baseball, basketball, or football cards? _____

Check

The circle graph shows the grade distribution of students who attended a high school football game. The total number of students who attended is 250.



5. How many juniors attended the game? _____
6. How many middle school students attended the game? _____
7. What percentage of the students who attended the game were either freshmen or sophomores? _____
8. How many of the students who attended the game were either freshmen or sophomores? _____