Name Date Period

Activity 50
Chapter 4, Lesson 10

# Finding the Percentage of a Number

**EXAMPLE** 30% of 400 =

*Write this:*

$$\begin{array}{r} 400 \\ \times\ .30 \\ \hline 120.00 \end{array}$$

Answer: 30% of 400 = 120

**EXAMPLE** What is 9.5% of 6.2?

*Write this:*

$$\begin{array}{r} 6.2 \\ \times\ 0.09\ 5 \\ \hline 31\ 0 \\ +\ 5\ 58 \\ \hline 0.5\ 89\ 0 \end{array}$$

Answer: 9.5% of 6.2 = 0.589

***Directions*** Find the percentage in the following problems.

**1.** 10% of 50 = _____

**2.** What is 10% of 400? _____

**3.** 3.6% of 25 = _____

**4.** What is 5% of 20? _____

**5.** 30% of 90 = _____

**6.** What is 7.9% of 56? _____

**7.** 17% of 100 = _____

**8.** What is 12.5% of 80? _____

**9.** 8.6% of 9.5 = _____

**10.** What is 37.5% of 160? _____

**11.** 4.9% of 31 = _____

**12.** What is 50% of 326? _____

**13.** 20% of 15.99 = _____

**14.** What is 80% of 100? _____

**15.** 30% of 12.95 = _____

**16.** What is 35% of 100? _____

**17.** 87% of 301 = _____

**18.** What is 0.5% of 100? _____

**19.** 9.2% of 100 = _____

**20.** What is 0.01% of 16? _____

**21.** 16.8% of 100 = _____

**22.** What is 0.006% of 87? _____

**23.** 3.9% of 36 = _____

**24.** What is 0.002% of 897,654? _____

**25.** 0.05% of 21,000 = _____

**26.** What is 0.007% of 1,000,000? _____

**27.** 0.067% of 325,000 = _____

**28.** What is 0.0125% of 8,000? _____

**29.** 0.0003% of 100 = _____

**30.** What is 10.0006% of 305? _____

**31.** 0.0009% of 827,351 = _____

**32.** What is 0.897654% of 100? _____

# Using Circle Graphs

**EXAMPLE** Jon's automotive budget provides for a $225 car payment, $80 for fuel, and $25 for general maintenance. Draw a circle graph to show the percent budgeted in each category.

**Step 1** Find the total amount of his budget.

$$\begin{array}{r} \$225 \\ 80 \\ +\ 25 \\ \hline \$330 \end{array}$$

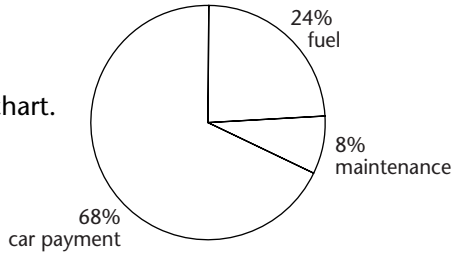
**Step 2** Find the percent in each category.

$225 \div 330 = 68\%$
$80 \div 330 = 24\%$
$25 \div 330 = 8\%$

**Step 3** Find the degrees for each category.

$68\% \times 360 = 245°$
$24\% \times 360 = 86°$
$8\% \times 360 = 29°$

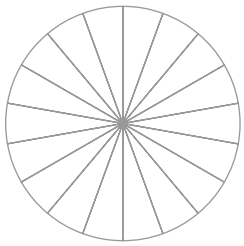
**Step 4** Draw the circle chart.




Check that the degrees total 360. Some error may occur due to rounding.

***Directions*** Draw circle graphs for each problem. Each chart is marked in 20 degree sections. Draw in your own lines to show your answers.

**1.** Brian's monthly insurance budget covers $5 life insurance, $25 health insurance and $150 renters insurance, and $100 auto insurance. Draw a circle graph to show the percent budgeted in each category.



**2.** Sylvia is saving $5 per week of her food budget to buy her china service. She also budgets $115 for groceries, $35 for lunches at work, and $25 for paper goods. Draw a circle graph to show how much is budgeted for each category.