Name _____ Date _____ Class _____

LESSON 6-3

Interactive Study Guide

Percent of a Number

To find the percent of a number use either a proportion or equivalent decimals. Both methods will result in the same answer. To find 6% of 24, use either method:

Proportion	**Equivalent Decimal**
$\frac{6}{100} = \frac{n}{24}$	$0.06 \cdot 24 = n$
$1.44 = n$	$1.44 = n$

Using Proportions to Find Percents of Numbers

Find 23% of 60.

$\frac{23}{100} = \frac{\_\_}{\_\_}$	$\frac{23}{100}$ is equal to what fraction?
$23 \cdot \_\_ = 100 \cdot \_\_$	Write the cross products.
$\_\_\_\_ = 100n$	Multiply.
$\frac{1{,}380}{\_\_\_} = \frac{100n}{\_\_\_}$	Divide each side by ____.
$\_\_\_\_ = n$	Solve for n.

23% of 60 is _____.

Using Decimal Equivalents to Find Percents of Numbers

Find 22% of 48.

22% of 48 = ____ • 48	Write 22% as a decimal.
= _____	Multiply.

22% of 48 is _____.

Estimate to check whether your answer is reasonable.

Since 25% of 48 = ___, and 22% of 48 is _____, then

_____ _____ reasonable.

Population Application

The total population of Charlottesville, Virginia, is 40,512. The approximate number of people in families is 41% of the total population. What is the approximate number of people in families to the nearest whole number?

Find 41% of _____.

____ • 40,512 = _____ Write 41% as a decimal. Find the product.

The approximate number of people in families in Charlottesville, Virginia, is _____.