Name _____ Date _____ Class _____

SECTION 6A

Ready to Go On? Skills Intervention

6-4 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 • ___ = 100 • ___	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 who live in apartments is 41% of the total population. What is the approximate number of people who live in apartments to the nearest whole number?

Find 41% of _____.

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

The approximate number of people who live in apartments in Charlottesville, Virginia, is _____.

Name _____ Date _____ Class _____

SECTION 6A

Ready to Go On? Problem Solving Intervention

6-4 Percent of a Number

When you solve problems with percents, sometimes you can decide when you will compute the percent.

You want to buy 3 CDs for $17 each, 1 CD for $19, and 2 CD racks for $25 each. Will $130 be enough if the sales tax is 7%?

Understand the Problem

1. How do you find the cost of something you're buying if there's a 7% sales tax?

_____

Make a Plan

2. Why might it be difficult to solve this problem using estimation?

_____

3. If the total price is *T*, how could you use a proportion to calculate 7%? _____

4. If the total price is *T*, how could you use a decimal equivalent to calculate 7%? _____

Solve

5. What is the total price of the items without tax? _____

6. Use a method from Exercise 3 or 4 to find the tax. _____

7. What is the total cost including tax? Will $130 be enough? _____

Check

8. Use an estimate to show that your answer makes sense.

_____

Solve

9. Would $130 be enough if the sales tax were 8%? Explain.

_____

_____