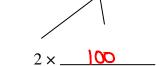
Chapter 4- Understanding Percent Sections 4.3: Percent of a Number

4.3 Warm Up

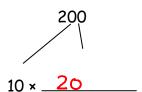
a)

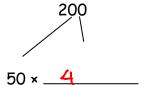
1. Complete the factors for each number.

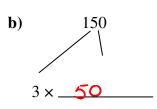


200













Divide by 100.



- 2. Change each percent to a decimal.
 - a) 55% = <u>0.55</u>
 - c) 140% = _____.40

- **b**) 200% = 2.00
- **d**) 6% = <u>0-06</u>

- **3.** Divide.
 - a) $1.5 \div 100 = 0.015$
 - c) $20.35 \div 100 = 0.2035$
- **b**) $0.55 \div 100 = \underline{0.0055}$
- **d)** $3.75 \div 100 = 0.0375$

- **4.** Write each percent as a decimal.
 - a) $\frac{1}{4}\% = 0.25$ = 0. 25 %= 0. 25 $\div 100$ = 0.0025

b)
$$\frac{1}{2}\%$$
 $\frac{1}{2} = 0.5$
= 0. 0.5 %
= 0. 0.5 ÷ 100

 $0.75 \div 100) \frac{3}{4}\% = 0.0075$

d) $\frac{3}{5}\% = 0.006$ $\frac{3}{5} = 0.6$

- **5.** Fill in the blanks.
 - **a**) Half of 60 is ______
 - c) $1000 \div 10 = 100$

- **b**) Double 25 is ______
- **d**) $10\ 000 \div 10 = 1000$

Chapter 4- Understanding Percent Sections 4.3: Percent of a Number

Today, we will use two methods to find the percent of a number.

- 1) using Mental Math (no calculator)
- 2) using decimals (calculator allowed)

METHOD #1: MENTAL MATH

Using mental math requires you to know how to use the following strategies:

- doubling and halving
- dividing by 10

METHOD #2: USING DECIMALS

Using decimals required you to know how to change percents to decimals:

• divide by 100

Example 1: Find 250% of \$10.

$$\frac{750\%}{100}$$
 $\%$ 20 = $\frac{15008}{100}$ = 150

Method #1: 100%, of 10 is = 100% of 10

250 % = 100% +100% + 50%

Method #2:

O Change From Percent to decimals 250% = 2.5

12 multiply the decimal by \$10 = 25X10=25

Exercise: Try to find 310% of \$50.

Method #1:
$$100\%$$
 of \$50 = 50

Method #2:

$$\frac{310}{100} \times 50 = $155$$

Example #2: Find 0.1% of \$4000 Use Mental Math

Use Decimals and the calculator

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Example #3: Find $5\frac{1}{4}\%$ of \$20,000

Use Mental Math

Use Mental Math

$$100\%$$
 of $20.000 = 2000$
 10% of $20.000 = 2000$
 10% of $20.000 = 1000$ $= 100$

Use Decimals and the calculator
$$\frac{5}{4} = 0.25\%$$
.

 5.25% . oF 20∞ $5\frac{1}{4} = 5.25$
 5.25% $\sqrt{200\%} = \sqrt{1050}$

$$\frac{5.25}{199}$$
 x $20900 = 1050$

Example #4: ______ is the amount of money earned by sales people. It is based on a portion of total sales.

a) Johnny receives 3% commission on all his Boxing Day sales at Future Shop. He sold \$14,000 worth of stuff on that day. How much commission did he earn?

\$14 000

Commission =
$$\frac{3}{100} \times 14000 \stackrel{\#}{=} 420$$

b) Fred, who is a real estate agent (sells homes) receives 5% commission on the first \$100,000 of a house's selling price, and 2% on the remaining amount. If he sold a house for \$500,000, how much commission did he make on the sale of the house?

5% For the First 100,000 }
2% on the remaining

500 000

5% OF 100 000

$$\frac{5}{100}$$
 x 100 000 = 5000

$$\frac{5}{100} \times 100000 = 5000$$
 $\frac{2}{100} \times 400000 = 8000$
 $\frac{2}{100} \times 400000 = 8000$
 $\frac{2}{100} \times 400000 = 8000$



Assignment: Page 142 – 143 do # 3, 4, 5, 6, 8, 10, 11,

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Date: _____

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Percentage Worksheet 2

1a. What is 50.8% of 142?

1b. What is 25.7% of 72?

2a. What is 16.8% of 24?

2b. What is 88.7% of 54?

3a. What is 92.9% of 109?

3b. What is 36.4% of 135?

4a. What is 79.1% of 31?

4b. What is 31.6% of 19?

5a. What is 78.8% of 62?

5b. What is 58.7% of 30?

6a. What is 87.6% of 56?

6b. What is 22.6% of 96?

7a. What is 91.5% of 4?

7b. What is 76.6% of 82?

8a. What is 68.2% of 119?

8b. What is 60.7% of 123?

9a. What is 46.4% of 49?

9b. What is 67.8% of 126?

10a. What is 58% of 86?

10b. What is 53.8% of 12?

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