

Percents as Decimals and Fractions



Goal: Write percents as decimals and fractions.

Vocabulary

Precent: A ratio whose denominator is 100

EXAMPLE 1) Writing Percents as Decimals

Remember that dividing by 100 is the same as moving the decimal point two places to the left.

a.
$$0.48\% = 0.48 \div 100 = .0048 = 0.0048$$

b.
$$175\% = 175 \div 100 = 1.75 = \boxed{1.75}$$

c.
$$3.6\% = 3.6 \div 100 = .036 = \boxed{0.036}$$

EXAMPLE 2 **Finding a Percent of a Number**

Election You are running for class president. In the election, 250 students vote, and 64% of the votes are for you. How many votes do you get?

Solution

To find the number of votes that are for you, multiply 64% by 250.

Answer: You get 160 votes.

Guided Practice Write the percent as a decimal.

1. 92% **2.** 206% **3.** 47.5% **4.** 0.8%

Use the information in Example 2.

5. What if? Suppose that 56% of the votes are for you in the election. How many votes do you get?

EXAMPLE 3 Writing Percents as Fractions

a. 0.48% =
$$\frac{\boxed{0.48}}{100} = \frac{\boxed{0.48} \times \boxed{0.48}}{100 \times \boxed{100}} = \boxed{\frac{48}{10,000}} = \boxed{\frac{3}{625}}$$

b. 175% =
$$\frac{\boxed{175}}{100}$$
 = $\frac{\boxed{175} \div \boxed{25}}{100 \div \boxed{25}}$ = $\boxed{\frac{7}{4}}$ = $\boxed{1\frac{3}{4}}$

c. 3.6% =
$$\frac{\boxed{3.6}}{100} = \frac{\boxed{3.6} \times \boxed{10}}{100 \times \boxed{10}} = \boxed{\frac{36}{1000}} = \boxed{\frac{9}{250}}$$

Homework

Guided Practice Write the percent as a fraction.

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