Decimals and Fractions Percents



Goal: Write decimals and fractions as percents.

EXAMPLE 1 Writing Decimals as Percents

a.
$$1.09 = (1.09) \times 100)\% = (109).\% = 109\%$$

b.
$$0.3 = (0.3) \times (100)\% = (030)\% = (30)\%$$

You can also write a decimal as a percent by writing the decimal as a fraction with a denominator of 100.

The percent is the numerator. For example,

$$0.3 = \frac{3}{10}$$
$$= \frac{30}{100} = 30\%.$$

Guided Practice Write the decimal as a percent.

1 . 0.78	2. 0.5 3. 9.2 4. 0.401
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EXAMPLE 2 Writing Fractions as Percents

a.
$$-\frac{2}{5} = -\frac{2 \cdot 20}{5 \cdot 20} = -\frac{40}{100} = -40\%$$

b.
$$\frac{78}{600} = \frac{78 \div \boxed{6}}{600 \div \boxed{6}} = \boxed{\frac{13}{100}} = \boxed{13}\%$$

c.
$$\frac{9}{4} = \frac{9 \cdot 25}{4 \cdot 25} = \frac{225}{100} = 225\%$$

Guided Practice Write the fraction as a percent.

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EXAMPLE 3 Ordering Rational Numbers

Survey A survey asking teenagers to name something they do all day on Saturday had the following results: $\frac{7}{20}$ go to the beach, 0.21 go to a friend's house, and 28.2% go to the mall. Order the numbers from least to greatest.

Solution

Method 1 Write the numbers as percents.

$$\frac{7}{20} = \frac{7 \times \boxed{5}}{20 \times \boxed{5}} = \boxed{\frac{35}{100}} = \boxed{35}\%$$

$$0.21 = (\boxed{0.21} \times \boxed{100})\% = \boxed{21}\%$$

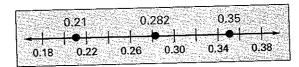
$$28.2\% = \boxed{28.2}\%$$

Compare the percents. 21 % < 28.2 % and

Method 2 Write the numbers as decimals.

$$\frac{7}{20} = \boxed{0.350}$$
 0.21 = $\boxed{0.210}$ 28.2% = $\boxed{0.282}$ Compare the decimals. $\boxed{0.210}$ < $\boxed{0.282}$ and

Check Use a number line to order the decimals.



Answer: The numbers ordered from least to greatest are 0.21

$$28.2\%$$
 , and $\frac{7}{20}$

Homework

Guided Practice Order the numbers from least to greatest.

	10 25% 0.02. $\frac{1}{2}$ 11 . $\frac{11}{2}$, 0.13, 13.75%
9. 0.165, $\frac{4}{25}$, 1.5%	10. 25%, 0.02, $\frac{1}{5}$ 11. $\frac{-1}{8}$, 0.13, 13.75%
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