

Percents and Decimals

Lesson 6-1

Writing percents as decimals

- To change a percent to a decimal, simply move the decimal **2** places to the left then remove the percent symbol.
- For example 50% is 0.5, and 22% is 0.22
- 6% would be 0.06 and 145% is 1.45

Study Tip: When moving the decimal, you may need to add one or more zeros in the number.

On Your Own

- Write these percents as decimals:
- 16%
- 62.5%
- 120%

On Your Own

- Write these percents as decimals:

- 16%

0.16

- 62.5%

- 120%

On Your Own

- Write these percents as decimals:

- 16%

0.16

- 62.5%

0.625

- 120%

On Your Own

- Write these percents as decimals:

- | | |
|---------|-------|
| ● 16% | 0.16 |
| ● 62.5% | 0.625 |
| ● 120% | 1.2 |

Writing Decimals as Percents

- To change a decimal to a percent, simply move the decimal **2** places to the right and then add the percent symbol.
- 0.42 is 42% and 0.8 is 80%
- 1.25 is 125%

Study Tip: When moving the decimal, you may need to add one or more zeros in the number.

On Your Own

- Write these decimals as percents:
- 0.4
- 0.023
- 1.75

On Your Own

- Write these decimals as percents:

- | | |
|---------|------|
| ● 0.4 | 40% |
| ● 0.023 | 2.3% |
| ● 1.75 | |

On Your Own

- Write these decimals as percents:

- | | |
|---------|------|
| ● 0.4 | 40% |
| ● 0.023 | 2.3% |
| ● 1.75 | 175% |

Writing a Percent as a Fraction

- A percent is a ratio that compares a number to 100.
- To change a percent to a fraction, simply put the percent number in the numerator and make the denominator “100.”
- Simplify the fraction when necessary.

Examples

- 5% is $\frac{5}{100}$.
- 125% is $\frac{125}{100}$.

Examples

- 5% is $\frac{5}{100}$. Simplified to $\frac{1}{20}$
- 125% is $\frac{125}{100}$.

Examples

- 5% is $\frac{5}{100}$. Simplified to $\frac{1}{20}$
- 125% is $\frac{125}{100}$. Simplified to $\frac{5}{4}$

On Your Own

- Write as a fraction in simplest form.
- 58%
- 7%
- 144%

On Your Own

- Write as a fraction in simplest form.
- 58% $\frac{29}{50}$
- 7%
- 144%

On Your Own

- Write as a fraction in simplest form.
- 58% $\frac{29}{50}$
- 7% $\frac{7}{100}$
- 144%

On Your Own

- Write as a fraction in simplest form.

- 58% $\frac{29}{50}$

- 7% $\frac{7}{100}$

- 144% $\frac{36}{25}, 1\frac{11}{25}$

Writing a Fraction as a Percent

- First, we change the fraction to a decimal by dividing the numerator by the denominator.
- Then we move the decimal 2 spaces to the right and add the percent symbol.

Examples

- $\frac{4}{5} =$

- $\frac{21}{25} =$

Examples

- $\frac{4}{5} = 4 \div 5 = 0.8 = 80\%$

- $\frac{21}{25} =$

Examples

- $\frac{4}{5} = 4 \div 5 = 0.8 = 80\%$

- $\frac{21}{25} = 21 \div 25 = 0.84 = 84\%$

On Your Own

- Write each fraction as a percent.

- $\frac{7}{35} =$

- $\frac{3}{5} =$

On Your Own

- Write each fraction as a percent.

- $\frac{7}{35} = 7 \div 35 = 0.2 = 20\%$

- $\frac{3}{5} =$

On Your Own

- Write each fraction as a percent.

- $\frac{7}{35} = 7 \div 35 = 0.2 = 20\%$

- $\frac{3}{5} = 3 \div 5 = 0.6 = 60\%$