

SKILL 11: Fractions, Decimals, Percent

Fractions, decimals, and percents all describe parts of a whole.

- To convert a fraction to a percent, write an equal fraction with a denominator of 100. You might want to use a proportion to do this.
- To convert a decimal to a percent, multiply the decimal by 100 and write the percent symbol. Remember, to multiply by 100, you can simply move the decimal point two places to the right.

Example 1

Write 15% as a fraction in simplest form and as a decimal.

Fraction: $15\% = \frac{15}{100} = \frac{15 \div 5}{100 \div 5} = \frac{3}{20}$ Decimal: $15\% = \frac{15}{100} = 0.15$

Example 2

Write $\frac{1}{6}$ as a percent. Round to the nearest tenth.

Write a proportion using $\frac{1}{6}$ and a $\frac{1}{6} = \frac{x}{100}$ fraction with a denominator of 100.

$$\frac{1}{6} = \frac{x}{100}$$

Find the cross products.

$$6x = 100$$

Divide both sides by 6.

$$x = 100 \div 6$$

$$x \approx 16.7$$

 \sqcup 6x means 6 times x

Recall that the symbol ≈ means is approximately equal to.

So, $\frac{1}{6} \approx 16.7\%$

Guided Practice

Write each percent as a fraction in simplest form and as a decimal.

1.
$$67\% = \frac{67}{100}$$
 ; **2.** $8\% = \frac{8}{100}$;

2.
$$8\% = \frac{8}{100}$$
 _____; ____

Write each decimal as a percent.

Solve each proportion. Then write the percent.

6.
$$\frac{7}{10} = \frac{x}{100}$$

7.
$$\frac{5}{8} = \frac{x}{100}$$

8.
$$\frac{2}{3} = \frac{x}{100}$$

$$\frac{7}{10} =$$

$$\frac{2}{3} \approx$$

SKILL 11: Practice

Convert each percent to a fraction in lowest terms and to a decimal.

- 1. 80%
- **2.** 25%

3. 3%

- Fraction: _____
- Fraction: _____
- Fraction: _____

- Decimal: _____
- Decimal: _____
- Decimal: _____

4. 75%

5. 16%

6. 94%

- Fraction: _____
- Fraction: _____
- Fraction: _____

- Decimal: _____
- Decimal: _____
- Decimal: _____

Convert each fraction or decimal to a percent. Round to the nearest tenth of a percent if necessary.

7. $\frac{3}{10}$

8. $\frac{37}{50}$

9. $\frac{18}{20}$ _____

- 10. $\frac{1}{2}$ _____
- 11. \(\frac{4}{5}\)
- **12.** $\frac{93}{100}$

- **13.** 0.43 _____
- 14. 0.01 _____
- **15.** 0.74 _____

- 16. $\frac{4}{9}$ _____
- 17. ½
- **18.** $\frac{23.5}{100}$

The table at the right shows what part of her allowance each girl saves.

- 19. Who saves the greatest percent of her allowance?
- ____

Savings RateLindy $\frac{1}{5}$ Sonia16%Annie0.25Gena20%Mari $\frac{1}{10}$

- 20. Who saves the smallest percent of her allowance?
- 21. Which girls save the same percent?



- 22. Write 0.347 as a percent.
- Skill 11

- A 34.7%
- C 3.47%
- **B** 347%
- **D** 0.00347%
- 23. Which shows a unit rate?
 - F 1 ride \$10
- H \$10
- G 10 rides \$1
- 10 rides

Skill 3