

Writing Fractions as Percents

A fraction that has a denominator of 100 can be written as a percent. Just remove the denominator of 100 and write a percent sign after the number.

Examples $\frac{15}{100} = 15\%$ $\frac{3}{100} = 3\%$ $\frac{27}{100} = 27\%$

- If a fraction does not have a denominator of 100, you can rename it. One way to do this is to multiply the numerator and the denominator by the same number. The number you choose to multiply by should be one that produces a product of 100 in the denominator.

Example $\frac{3}{4} = \frac{25 \times 3}{25 \times 4} = \frac{75}{100} = 75\%$

- Another way to rename the fraction is to write a proportion. Write a fraction with a letter in the numerator and 100 in the denominator. Find the cross products and divide to find the missing term. Then replace the letter in your proportion with the number it equals.

Example $\frac{3}{4} = \frac{n}{100}$

$$3 \times 100 = 4n$$

$$\frac{300}{4} = \frac{4n}{4}$$

$$n = 75, \text{ so } \frac{3}{4} = \frac{75}{100} = 75\%$$

- A third way to rename a fraction as a percent is to divide the numerator by the denominator. Then write the resulting decimal as a percent. Remember, percent means hundredths.

Example $\frac{3}{4} = 3 \div 4 = 0.75 = 75\%$

PRACTICE

Write each fraction as a percent.

1. $\frac{1}{10} =$ _____

2. $\frac{3}{5} =$ _____

3. $\frac{1}{2} =$ _____

4. $\frac{3}{20} =$ _____

5. $\frac{1}{4} =$ _____

6. $\frac{1}{8} =$ _____

7. $\frac{3}{8} =$ _____

8. $\frac{3}{15} =$ _____

9. $\frac{8}{10} =$ _____

10. $\frac{5}{8} =$ _____

11. $\frac{10}{20} =$ _____

12. $\frac{1}{5} =$ _____

Writing Fractions as Percents

A fraction that has a denominator of 100 can be written as a percent. Just remove the denominator of 100 and write a percent sign after the number.

Examples $\frac{15}{100} = 15\%$ $\frac{3}{100} = 3\%$ $\frac{27}{100} = 27\%$

- If a fraction does not have a denominator of 100, you can rename it. One way to do this is to multiply the numerator and the denominator by the same number. The number you choose to multiply by should be one that produces a product of 100 in the denominator.

Example $\frac{3}{4} = \frac{25 \times 3}{25 \times 4} = \frac{75}{100} = 75\%$

- Another way to rename the fraction is to write a proportion. Write a fraction with a letter in the numerator and 100 in the denominator. Find the cross products and divide to find the missing term. Then replace the letter in your proportion with the number it equals.

Example $\frac{3}{4} = \frac{n}{100}$

$$3 \times 100 = 4n$$

$$\frac{300}{4} = \frac{4n}{4}$$

$$n = 75, \text{ so } \frac{3}{4} = \frac{75}{100} = 75\%$$

- A third way to rename a fraction as a percent is to divide the numerator by the denominator. Then write the resulting decimal as a percent. Remember, percent means hundredths.

Example $\frac{3}{4} = 3 \div 4 = 0.75 = 75\%$

PRACTICE

Write each fraction as a percent.

$$1. \frac{1}{10} = \frac{1 \times 10}{10 \times 10} = \frac{10}{100} \quad \underline{10\%}$$

$$2. \frac{3}{5} = \frac{3 \times 20}{5 \times 20} = \frac{60}{100} \quad \underline{60\%}$$

$$3. \frac{1}{2} = \frac{1 \times 50}{2 \times 50} = \frac{50}{100} \quad \underline{50\%}$$

$$4. \frac{3}{20} = \frac{3 \times 5}{20 \times 5} = \frac{15}{100} \quad \underline{15\%}$$

$$5. \frac{1}{4} = \frac{1 \times 25}{4 \times 25} = \frac{25}{100} \quad \underline{25\%}$$

$$6. \frac{1}{8} = 1 \div 8 = .125 \quad \underline{12.5\%}$$

$$7. \frac{3}{8} = 3 \div 8 = .375 \quad \underline{37.5\%}$$

$$8. \frac{3}{15} = \frac{1}{5} = \frac{1 \times 20}{5 \times 20} = \frac{20}{100} \quad \underline{20\%}$$

$$9. \frac{8}{10} = \frac{8 \times 10}{10 \times 10} = \frac{80}{100} \quad \underline{80\%}$$

$$10. \frac{5}{8} = 5 \div 8 = .625 \quad \underline{62.5\%}$$

$$11. \frac{10}{20} = \frac{10 \times 5}{20 \times 5} = \frac{50}{100} \quad \underline{50\%}$$

$$12. \frac{1}{5} = \frac{1 \times 20}{5 \times 20} = \frac{20}{100} \quad \underline{20\%}$$