

WORKSHEET 2.15: EXPRESSING FRACTIONS AS PERCENTS

Every fraction can be expressed as a percent using the methods shown below:

Method 1: Change the fraction to a decimal and express the decimal as a percent.

1. Divide the numerator by the denominator to the hundredths place.
2. If there is a remainder, place it over the divisor.
3. Move the decimal point in the quotient two places to the right and include the percent symbol.

EXAMPLE

$$\frac{1}{5} \rightarrow 5 \overline{)1.00} \rightarrow \frac{0.20}{5} \rightarrow \frac{1}{5} = 20\% \qquad \frac{3}{8} \rightarrow 8 \overline{)3.00} \rightarrow \frac{0.37\frac{4}{8}}{8} \rightarrow \frac{3}{8} = 37\frac{1}{2}\%$$

Method 2: Express the fraction as an equivalent fraction with a denominator of 100. This method is easier if the denominator is a factor of 100.

EXAMPLE

$$\frac{1}{5} = \frac{n}{100} \rightarrow n = 20 \rightarrow \frac{20}{100} = 20\% \qquad \frac{3}{8} = \frac{n}{100} \rightarrow n = 37.5 \rightarrow \frac{37.5}{100} = 37.5\%$$

DIRECTIONS: Write each fraction as a percent.

1. $\frac{3}{5}$

2. $\frac{7}{8}$

3. $\frac{2}{3}$

4. $\frac{7}{1000}$

5. $\frac{9}{100}$

6. $\frac{1}{6}$

7. $\frac{67}{100}$

8. $3\frac{1}{2}$

9. $\frac{10}{11}$

10. $\frac{7}{9}$

11. $2\frac{5}{8}$

12. $\frac{1}{12}$



CHALLENGE: Do you agree or disagree with the following statement? All whole numbers and mixed numbers can be expressed as percents greater than 100. Explain your answer.

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EXAMPLE

$$\frac{1}{5} \rightarrow 5 \overline{)1.00} \rightarrow \frac{0.20}{5} \rightarrow \frac{1}{5} = 20\% \qquad \frac{3}{8} \rightarrow 8 \overline{)3.00} \rightarrow \frac{0.375}{8} \rightarrow \frac{3}{8} = 37\frac{1}{2}\%$$

Method 2: Express the fraction as an equivalent fraction with a denominator of 100. This method is easier if the denominator is a factor of 100.

EXAMPLE

$$\frac{1}{5} = \frac{n}{100} \rightarrow n = 20 \rightarrow \frac{20}{100} = 20\% \qquad \frac{3}{8} = \frac{n}{100} \rightarrow n = 37.5 \rightarrow \frac{37.5}{100} = 37.5\%$$

DIRECTIONS: Write each fraction as a percent.

- | | | | |
|---|---|---|--|
| 1. $\frac{3}{5}$ 60% | 2. $\frac{7}{8}$ $87\frac{1}{2}\%$
OR
87.5% | 3. $\frac{2}{3}$ $66\frac{2}{3}\%$
OR
$66.\overline{6}\%$ | 4. $\frac{7}{1000}$ $\frac{7}{10}\%$ OR 0.7% |
| 5. $\frac{9}{100}$ 9% | 6. $\frac{1}{6}$ $16\frac{2}{3}\%$
OR
$16.\overline{6}\%$ | 7. $\frac{67}{100}$ 67% | 8. $3\frac{1}{2}$ 350% |
| 9. $\frac{10}{11}$ $90.\overline{90}\%$ | 10. $\frac{7}{9}$ $77.\overline{7}\%$ | 11. $2\frac{5}{8}$ 262.5% | 12. $\frac{1}{12}$ $8.\overline{3}\%$ |



CHALLENGE: Do you agree or disagree with the following statement? All whole numbers and mixed numbers can be expressed as percents greater than 100. Explain your answer.

Disagree. Whole numbers greater than 1 and all mixed numbers can be expressed as percents greater than 1.
1 is equal to 100 percent.