

Fractions to Percents

Practice

Fractions to Percents – Two of the most common ways to write numbers are fractions and percents.

- Fraction to Percent: *divide to the hundredths place* $\frac{1}{2} \rightarrow 2 \overline{)1.00} \rightarrow 0.50 \times 100 \rightarrow 50\%$
- Percent to Fraction: $40\% \rightarrow \frac{40}{100} \rightarrow \frac{2}{5}$ lowest terms.
- Remember, per-cent means “out of one hundred”.

A. Fraction to Percent.

$$\frac{3}{4} \rightarrow 4 \overline{)3.00} \quad \text{The fraction bar means “divide”}.$$

$$4 \overline{)3.00} \quad \begin{array}{l} 0.75 \\ \hline \end{array} \quad \text{Work to the hundredths place.}$$

$$0.75 \times 100 \rightarrow 75\% \quad \text{Multiply by 100.}$$

B. Percent to Fraction.

Reduce to Lowest Terms

$$27\% \rightarrow \frac{27}{100}$$

$$42\% \rightarrow \frac{42}{100} = \frac{21}{50}$$

$$2.8\% \rightarrow 2 \frac{80}{100} = 2 \frac{4}{5}$$

$$150\% \rightarrow \frac{150}{100} = 1 \frac{1}{2}$$

C. Repeating Decimals to Percents.

$$\frac{9}{11} \rightarrow 11 \overline{)0.818181} \quad \begin{array}{l} 0.818181 \\ \hline 9.00 \end{array}$$

You can... use the approximate sign and round the percent to the nearest hundredths. $\sim 82\%$

You can... use the exact answer $81.\overline{81}\%$.

It is okay to use decimals with percents.

Directions: Write the fraction as a percent or percent as a fraction in lowest terms. Show work for each problem. Then answer the riddle.



Think of a six-letter word. If you take away one of the letters, you are left with twelve. What is the word?

| | | | | |
|------------------------|----------------|-------------------------|-----------------------|-------------------------|
| S. $\frac{5}{8} =$ | M. $80\% =$ | T. $\frac{1}{9} =$ | L. $5\% =$ | B. $\frac{12}{24} =$ |
| E. $\frac{5}{12} =$ | A. $22\% =$ | C. $\frac{3}{8} =$ | G. $\frac{9}{6} =$ | O. $36\% =$ |
| N. $\frac{7}{20} =$ | O. $39\% =$ | D. $\frac{6}{100} =$ | E. $95\% =$ | Z. $\frac{3}{5} =$ |

| | | | | | |
|----|------------------|-----|-----------------|-----|-----|
| 6% | $\frac{39}{100}$ | 60% | $\frac{19}{20}$ | 35% | 63% |
|----|------------------|-----|-----------------|-----|-----|

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12

Think of a six-letter word. If you take away one of the letters, you are left with twelve. What is the word?

| | | | | |
|----------------------------------|-------------------------------|---------------------------------|------------------------------|------------------------------|
| S. $\frac{5}{8} = \sim 63\%$ | M. $80\% = \frac{4}{5}$ | T. $\frac{1}{9} = \sim 11\%$ | L. $5\% = \frac{1}{20}$ | B. $\frac{12}{24} = 50\%$ |
| E. $\frac{5}{12} = \sim 42\%$ | A. $22\% = \frac{11}{50}$ | C. $\frac{3}{8} = \sim 38\%$ | G. $\frac{9}{6} = 150\%$ | O. $36\% = \frac{9}{25}$ |
| N. $\frac{7}{20} = 35\%$ | O. $39\% = \frac{39}{100}$ | D. $\frac{6}{100} = 6\%$ | E. $95\% = \frac{19}{20}$ | Z. $\frac{3}{5} = 60\%$ |

| | | | | | |
|----|------------------|-----|-----------------|-----|-----|
| D | O | Z | E | N | S |
| 6% | $\frac{39}{100}$ | 60% | $\frac{19}{20}$ | 35% | 63% |