

Lesson 42: Percent of a Number Using Fractions

Purpose of lesson: You will learn how to use fractions to solve percent problems.



You have already learned that percents can be written as decimals. Percents can also be written as fractions. Sometimes it's better to write them as fractions to solve certain problems.

Below is a chart which shows you how to change commonly used percents into fractions.

Study this chart to help you know which percents are better to use as fractions:

PERCENT	DECIMAL	CHANGE PERCENT INTO A FRACTION	FRACTION
16 $\frac{2}{3}$ %	.16 $\frac{2}{3}$	$\frac{16 \frac{2}{3}}{100} = \frac{50}{3} \div \frac{100}{1} = \frac{50}{3} \times \frac{1}{100} = \frac{50}{300} = \frac{1}{6}$	$\frac{1}{6}$
33 $\frac{1}{3}$ %	.33 $\frac{1}{3}$	$\frac{33 \frac{1}{3}}{100} = \frac{100}{3} \div \frac{100}{1} = \frac{100}{3} \times \frac{1}{100} = \frac{1}{3}$	$\frac{1}{3}$
66 $\frac{2}{3}$ %	.66 $\frac{2}{3}$	$\frac{66 \frac{2}{3}}{100} = \frac{200}{3} \div \frac{100}{1} = \frac{200}{3} \times \frac{1}{100} = \frac{200}{300} = \frac{2}{3}$	$\frac{2}{3}$
83 $\frac{1}{3}$ %	.83 $\frac{1}{3}$	$\frac{83 \frac{1}{3}}{100} = \frac{250}{3} \div \frac{100}{1} = \frac{250}{3} \times \frac{1}{100} = \frac{250}{300} = \frac{5}{6}$	$\frac{5}{6}$
12 $\frac{1}{2}$ %	.12 $\frac{1}{2}$	$\frac{12 \frac{1}{2}}{100} = \frac{25}{2} \div \frac{100}{1} = \frac{25}{2} \times \frac{1}{100} = \frac{25}{200} = \frac{1}{8}$	$\frac{1}{8}$
37 $\frac{1}{2}$ %	.37 $\frac{1}{2}$	$\frac{37 \frac{1}{2}}{100} = \frac{75}{2} \div \frac{100}{1} = \frac{75}{2} \times \frac{1}{100} = \frac{75}{200} = \frac{3}{8}$	$\frac{3}{8}$
62 $\frac{1}{2}$ %	.62 $\frac{1}{2}$	$\frac{62 \frac{1}{2}}{100} = \frac{125}{2} \div \frac{100}{1} = \frac{125}{2} \times \frac{1}{100} = \frac{125}{200} = \frac{5}{8}$	$\frac{5}{8}$
87 $\frac{1}{2}$ %	.87 $\frac{1}{2}$	$\frac{87 \frac{1}{2}}{100} = \frac{175}{2} \div \frac{100}{1} = \frac{175}{2} \times \frac{1}{100} = \frac{175}{200} = \frac{7}{8}$	$\frac{7}{8}$

NOTE: ALL percents can be turned into fractions.

Take Lesson 42 Quiz 1