

PERCENTS

What Is a Percent?

- The term percent refers to a fraction in which the denominator is 100. It is a way to compare a number with 100.
- Since a dollar is equal to 100 cents, a quarter of a dollar is equal to $\frac{1}{4}$ of the dollar. If we change the denominator in $\frac{1}{4}$ to 100, the numerator becomes 25, so a quarter is $\frac{25}{100}$ of a dollar or 25 cents.

$$\frac{3}{5} \rightarrow \frac{n}{100} \rightarrow \left(\frac{3}{5} \times \frac{20}{20}\right) = \frac{60}{100} = 60\%$$

60% is read "60 percent" and represents 60 out of 100.



Please login or register to download the printable version of this study guide.

www.newpathlearning.com

$$\frac{3}{4} \rightarrow \frac{n}{100} \rightarrow \left(\frac{3}{4} \times \frac{25}{25}\right) = \frac{75}{100} = 75\%$$

75% is 75 out of 100

- Percents can be written as fractions, decimals or numbers with the percent sign:

$$\frac{55}{100} = 55\% = .55$$

$$\frac{64}{100} = 64\% = .64$$

How to determine a percent:

- The percent of a set or value is calculated by multiplying the value by the decimal form of the percent.

$$45\% = .45 \quad 76\% = .76 \quad 32\% = .32, \text{ etc.}$$

- Example:** If you want to know 60 percent of 70, change 60% to .60 and multiply times 70, as in: $.60 \times 70 = 42$. This means if there were originally 70 pencils in a box and 60% of them were used, 42 pencils are no longer in the box.

$$55\% \text{ of } 146 = .55 \times 146 = 80.30$$

$$27\% \text{ of } 67 = .27 \times 67 = 18.09$$

- Fraction parts of a portion decide



PREVIEW

Please login or register to download the printable version of this study guide.

www.newpathlearning.com

represent
ates a
you must
answer.

Try This!

What percent is equal to $3/20$? _____

What percent is equal to $34/50$? _____

Is the fraction $12/25$ equal to 48%? _____

What fraction is equal to 37%? _____

What fraction is equal to 80%? _____