

Ch 3.7 Percent

formula: $\frac{\text{is}}{\text{of}} = \frac{\text{percent}}{100}$

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Ex1a) 20% of 50 is what number?

Ex1b) 8 is 15% of what number?

Ex1c) What percent is 25 of 150?

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example 1

Grade: «grade»
Subject: «subject»
Date: «date»

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Try:

Write an equation for each problem and solve.

1. What is 20% of 20?
2. 8 is what percent of 20?
3. 18 is 90% of what number?

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1 1. what is 20% of 20?

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2 2. 8 is what percent of 20?

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3 3. 18 is 90% of what number?

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applications: $\frac{\text{part}}{\text{total}} = \frac{\text{percent}}{100}$

Ex2a)

At Summerville High School there are 553 freshmen, which is 35% of the total number of students. How many students attend the high school?

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Ex2b)

Band members had a fundraising goal of \$2500 as they earned money to go to the state competition. The fundraiser was more successful than they expected, and they raised \$3275. What percent of their goal did they raise?

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Percent of Change

% of increase: $\frac{\text{New price} - \text{original}}{\text{Original Amount}} = \frac{\text{percent}}{100}$

% of decrease: $\frac{\text{Original} - \text{new price}}{\text{Original Amount}} = \frac{\text{percent}}{100}$

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Ex4)

The price of a sweater decreased from \$29.99 to \$24.49. Find the percent of decrease.

- Find the percent of change if the price of a CD increases from \$12.99 to \$13.99. Round to the nearest percent.
- Find the percent of change if the CD is on sale, and its price decreases from \$13.99 to \$12.99. Round to the nearest percent.

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4 Round to the nearest %.

Farming In 1990, there were 1330 registered alpacas in the United States. By the summer of 2000, there were 29,856. What was the percent of increase in registered alpacas?

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