Calculating Percent Decrease

The Consumer Price Index (CPI) measures changes in prices by comparing, through time, the cost of a fixed basket of goods and services.

Some of the goods and services in the CPI basket include Food, Shelter, Clothing, Transportation and Education.

A pair of jeans decreased in price from \$80 to \$68.

I'll write the price decrease as a percent.

My first solution step involves performing the calculation shown here.

• How would I explain the values in this calculation?

My second solution step involves writing a fraction and performing a division calculation.

• How would I explain the fraction at this step in my solution?











• How would I explain and demonstrate rewriting my fraction as an equivalent decimal?

My final solution step involves multiplying by 100.

• Why am I multiplying by 100?

- How would I summarize my solution path for calculating the percent decrease?
- How would I check that my percent decrease is correct?



80 - 68 = 12

 $\frac{12}{80} = 0.15$

80 - 68 = 12





I'll review the previous solution approach using a new problem.

The price of a smartphone decreased from \$600 to \$468.

I'll write the price decrease as a percent.

- How would I determine the value I want to represent as a percent?
- How would I explain writing the price decrease as a fraction of the original price?

• How would I explain and demonstrate using my fraction to calculate the percent decrease?













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