

Original Amount = 345
New Amount = 415

Increase of 70

Increase of 20.3%

Original Amount = 1275
New Amount = 1095

Decrease of 180

Decrease of 14.1%

Original Amount = 764
Increase of 124

New Amount
888

Increase of 16.2%

Original Amount = 4050
Decrease of 1255

New Amount
2795

Decrease of 31.0%

Original Amount = 2900
Increase of 15%

New Amount
3335

Increase of 435

Original Amount = 900
Decrease of 45%

New Amount
495

Decrease of 405

Percent Increase and Decrease

When a value B is increased by an amount A , the rate of percent $R = \frac{A}{B}$, is called the **percent of increase**.

Notes from Video

The cost of a new car went from \$16,750 to \$19,965 in 2 years. Find the percent of increase in the price to the nearest tenth of a percent.

Group Work

A. The price of a gallon of premium gasoline went from \$2.19 to \$2.69 in 2005. Find the percent of increase in the price to the nearest tenth of a percent.

B. The Building and Services Department of a city in the South had a budget of \$26,675,000 in 2002 – 2003. The same department had a budget of \$28,021,791 for 2003 – 2004. What was the percent of increase in the budget? Round to the nearest tenth of a percent?

When a value B is decreased by an amount A , the rate of percent $R = \frac{A}{B}$, is called the **percent of decrease**.

Notes from Video

John went on a diet. At the beginning of the diet, he weighed 267 lb. After 6 weeks, he weighed 216 lb. Find the percent of decrease in his weight to the nearest tenth of a percent.

Group Work

A. The price of an LCD television set decreased from \$6734 in 2001 to \$3989 in 2005. Find the percent of decrease in the price to the nearest tenth of a percent.

B. The Portland Trail Blazers' average attendance home game dropped from 19,420 in 2002 – 2003 to 16,594 in 2004 – 2005. What was the percent of decrease? Round to the nearest tenth of a percent.