

2-10 Percent Change

Find the value requested. Round to the nearest tenth unless otherwise indicated.

1. A \$59 sweater is on sale for \$40. What percent decrease is this?

$$\frac{59-40}{59} = \frac{19}{59} \approx .322$$

This is a 32.2% decrease.

2. The price of a new laptop increased from \$750 to \$975. What is the percent increase?

$$\frac{975-750}{750} = \frac{225}{750} = .3$$

This is a 30% increase.

3. Three years ago, a restaurant charged \$9.95 for a burrito dinner. This year, the price is \$13.95. What is the percent change?

$$\frac{13.95-9.95}{9.95} = \frac{4.00}{9.95} \approx .402$$

This is a 40.2% increase.

4. A new kayak that originally cost \$1299 was on sale for \$824. What is the percent discount?

$$\frac{1299-824}{1299} = \frac{475}{1299} = .3656\dots$$

This is a 36.6% discount.

5. The total number of people who attended the Olympic swimming events in 2012 was 96,488. In 2016, that number grew to 112,563. What was the percent change?

$$\frac{112,563-96,488}{96,488} = \frac{16,075}{96,488} = .1666$$

This was a 16.7% increase.