

Answer Key.

Percent Error/Change Practice: Math 7)

1. A TV that cost \$1099 last year, costs \$999 this year. What is the percent of increase or decrease?

O 1099
N 999
D 100

$$\frac{100}{1099} = \frac{x}{100} \quad x = 9.1\% \text{ decr.}$$

2. A student calculates the density of a rock to be 2.2 g/ml and the accepted value is 2.7 g/ml. What is the student's percent error?

O 2.7
E 2.2
D .5

$$\frac{.5}{2.7} = \frac{x}{100} \quad x = 18.5\% \text{ decr.}$$

3. A student determines the volume of a cubic crystal to be 7.6 cubic centimeters. The correct volume of the crystal is 7.5 cubic centimeters. Find the student's percent error.

O 7.5
E 7.6
D .1

$$\frac{.1}{7.5} = \frac{x}{100} \quad x = 1.3\%$$

4. Jerry paid \$52.50 for his shoes, and the original price was \$75. What was the percent of discount?

O 75
N 52.50
D 22.50

$$\frac{22.50}{75} = \frac{x}{100} \quad x = 30\%$$

5. If the price of a book is \$21.99 without tax and with tax it \$23.31, what is the tax rate?

O 21.99
N 23.31
D 1.32

$$\frac{1.32}{21.99} = \frac{x}{100} \quad x = 6\%$$

6. What would the percentage error be if a person predicted that there were 38 jelly beans in a container, but when they were counted, it was found that there were actually 40 beans in the bottle?

O - 40
E - 38
D - 2

$$\frac{2}{40} = \frac{x}{100} \quad x = 5\%$$

7. If you made \$450 in November and \$1250 in December, what is the percent of increase in the money you made?

O 450
N 1250
D 800

$$\frac{800}{450} = \frac{x}{100} \quad x = 177.8\%$$