

### Percent of Change

- Suppose the price of a \$20 sweatshirt increases by \$2. You can express the increase as a percent.
  - Increase in price  
Original price
- Percent of Change is the ratio  $\frac{\text{amount of change}}{\text{original amount}}$  **is of** expressed as a percent.
  - Percent of Increase – value increased from original amount
  - Percent of Decrease – value decreased from original amount

Ratio and Proportion Day 3

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

of original 29.99  
- new 24.49  
-----  
is change 5.50

$$\frac{5.50}{29.99} = \frac{X}{100}$$

$$\frac{29.99 X}{29.99} = \frac{550}{29.99}$$

X = 18.3% decrease

Ratio and Proportion Day 3

- Find the percent of change if the price of a CD increases from \$12.99 to \$13.99. Round to the nearest percent.

orig. 12.99  
- new 13.99  
-----  
change 1.00

$$\frac{1.00}{12.99} = \frac{X}{100}$$

$$\frac{12.99 X}{12.99} = \frac{100}{12.99}$$

X = 7.7% increase

Ratio and Proportion Day 3

- 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.

orig. 13.99  
new 12.99  
-----  
change 1.00

$$\frac{1.00}{13.99} = \frac{X}{100}$$


$$13.99 X = 100$$

X = 7.17% decrease

Ratio and Proportion Day 3

- 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?

orig. 1330  
new 29,856  
-----  
change 28,526



$$\frac{28,526}{1330} = \frac{X}{100}$$

$$\frac{1330 X}{1330} = \frac{2852600}{1330}$$

X = 2144.8% increase

Ratio and Proportion Day 3

PW3 8 MAR 2014

- Workbook pg. 52 # 1 - 27

Ratio and Proportion Day 3