

Percent of Change

Percent of Change: Shows how much a quantity increases or decreases with respect to the original amt.

Percent of Change

$$p\% = \frac{\text{Find the Difference}}{\text{Original Amount}}$$

- 1) Original: 20
New: 25

$$P\% = \frac{25-20}{20} = \frac{5}{20} = \frac{1}{4} = .25 = \boxed{25\% \text{ increase}}$$

- 2) Original: 150
New: 189

$$P\% = \frac{189-150}{150} = \frac{39}{150} = .26 = \boxed{26\% \text{ increase}}$$

- 3) Original: 75
New: 35

$$P\% = \frac{75-35}{75} = \frac{40}{75} = .5\bar{3} = \boxed{53.\bar{3}\% \text{ decrease}}$$

- 4) Decrease 85 by 28%

"What is 28% of 85?"

$$x = .28 * 85$$

$$x = 23.80$$

85.00 original
- 23.80 mark down
\$61.20 New amt

- 5) Increase 45 by 30%

"What is 30% of 45?"

$$x = .3 * 45$$

$$x = 13.50$$

45.00 original
+ 13.50 markup
58.50 New amt.

- 6) Decrease 45 by 9%

"What is 9% of 45?"

$$x = .09 * 45$$

$$x = 4.05$$

45.00 original
- 4.05 mark down
\$40.95 New amt

Homework:

