W-A1 Algebra 1 2/23

1.) What percent of 80 is 54

X% * 80 = 54

$\frac{80x}{80} = \frac{54}{80}$ $x = 0.675 * 100\%$

67.5%

2.) 96 is what percent of 120.

96 = x% * 120

$\frac{96}{120} = \frac{120x}{120}$ $x = \frac{96}{120} = 0.8 * 100\%$

80%

3.) 62% of 90 is what number?

0.62 * 90 = x

x = 55.8

4.) 48 is 36% of what number?

48 = 0.36 * x

$\frac{48}{0.36} = \frac{0.36x}{0.36}$ $x = 133.\overline{3}$

5.) What number is 14% of 180.

x = 0.14 * 180

25.2

Percent Increase and Decrease

Average salary 1980 $21,000

2020 $53,000

$$\frac{\text{new} - \text{old}}{\text{old}} * 100\%$$

$\frac{32,000}{21,000} * 100\%$

$\frac{53,000 - 21,000}{21,000} * 100\%$

152%

Average Home Price

1980 - $47,200

2020 $355,000

$$\frac{new - old}{old} * 100\%$$

$$\frac{355,000 - 47,200}{47,200} * 100\%$$

652%

	1980	2020	
Gas	1.19	2.17	$\frac{2.17-1.19}{1.19} * 100\% = 82\%$
Bread	0.50	1.40	$\frac{1.40-0.50}{0.50} * 100\% = 180\%$
Min Wage	$3.10	$7.25	$\frac{7.25-3.10}{3.10} * 100\% = 134\%$
TV	$589	$360	$\frac{360-589}{589} * 100\% = -39\%$
video game	$35	$60	$\frac{60-35}{35} * 100\% = 71\%$
car	$7,000	38,000	$\frac{38,000-7,000}{7,000} * 100 = 442\%$
movie ticket	2.69	9.37	$\frac{9.37-2.69}{2.69} * 100\% = 248\%$