

M-A1 Algebra 1 Week 21 2/27

1.) What percent of 80 is 54?
 \downarrow \downarrow \downarrow \downarrow
 x $\%$ * 80 = 54

$$\frac{80x}{80} = \frac{54}{80}$$

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

$$= \boxed{67.5\%}$$

2.) 96 is what percent of 120?
 \downarrow \downarrow \downarrow \downarrow
 96 = x * 120

$$\frac{96}{120} = \frac{120x}{120}$$

$$x = \frac{96}{120} = 0.80 * 100\%$$

$$= \boxed{80\%}$$

3.) 62% of 90 is what number?
 \downarrow \downarrow \downarrow \downarrow \downarrow
 0.62 * 90 = x = $\boxed{55.8}$

4.) 48 is 36% of what number?
 \downarrow \downarrow \downarrow \downarrow \downarrow
 48 = 0.36 * x

$$\frac{48}{0.36} = \frac{0.36x}{0.36}$$

$$x = \boxed{133.\bar{3}}$$

5.) What number is 14% of 180?
 \downarrow \downarrow \downarrow \downarrow
 x = 0.14 * 180 = $\boxed{25.2}$

Percent Increase and Decrease

Average Salary

1980 → \$21,000

2020 → \$54,000

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

$$\frac{54,000 - 21,000}{21,000} * 100\%$$

$$\frac{33,000}{21,000} * 100\% = \boxed{157\%}$$

Average Price for House

1980 - \$65,000

2020 - \$300,000

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

$$\frac{300,000 - 65,000}{65,000} * 100\% = \boxed{361\%}$$

$$\frac{300 - 65}{65} * 100\%$$

1980 2020 157%

157%

	1980	2020	$\frac{\text{New} - \text{old}}{\text{old}} * 100\%$
Gas	\$1.19	\$3.40	$\frac{3.40 - 1.19}{1.19} * 100\% = \boxed{186\%}$
Bread	\$0.50	\$1.45	$\frac{1.45 - 0.50}{0.50} * 100\% = \boxed{190\%}$
Minimum Wage	\$3.10	\$7.25	$\frac{7.25 - 3.10}{3.10} * 100\% = \boxed{133\%}$
TV	\$650	\$450	$\frac{450 - 650}{650} * 100\% = -30\%$
video game	\$35	\$65	$\frac{65 - 35}{35} * 100\% = \boxed{86\%}$
car	\$7,000	\$42,000	$\frac{42,000 - 7,000}{7,000} * 100\% = \boxed{500\%}$
movie ticket	\$3.55 old 1980	\$9.17 New 2020	$\frac{9.17 - 3.55}{3.55} * 100\% = \boxed{158\%}$