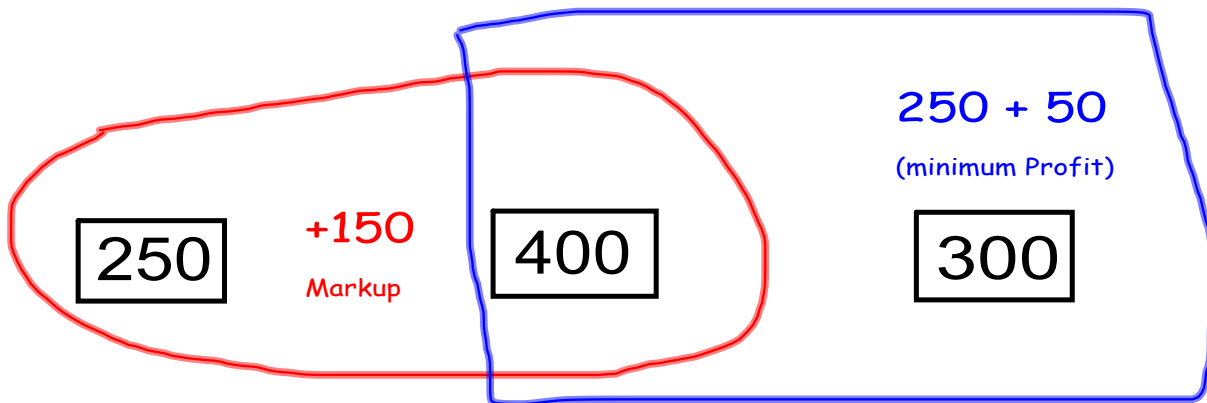


The Green Mountain Bike Shop pays \$250 for a particular bike. The normal markup is \$150.

- A) What's the percent of markup &
 B) What is the maximum percent of discount, The Green Mountain Bike Shop can offer while still making a \$50 profit on each bike?

Show & Explain your solution.



$$\frac{\text{Amount of Change}}{\text{Start Amount}} = \frac{\% \text{ Change}}{100}$$

$$\frac{150}{250} = \frac{x}{100}$$

60% Markup

$$\frac{\text{Amount of Change}}{\text{Start Amount}} = \frac{\% \text{ Change}}{100}$$

$$\frac{100}{400} = \frac{x}{100}$$

25% Discount

Note: the 100 could be thought of as NEGATIVE 100. Then the % change would be -25% (the negative means a discount or decrease).

In the last 12 years, Holden's population has increased from 12,500 to 17,500.

A) What's the percent of increase?

B) At the same rate of increase, what will be Holden's population in another 6 years? . . . in 12 yrs?

Show & Explain your solution.

① Vocab

Tip, Commission, mark up
% change
percent

② Fraction — decimal — percent

③ 54 is what percent of 90?

④ word questions Application
Tip / tax / discount / commission
% of change

Commission

$$\text{Total Earnings} = \text{Salary (fixed)} + \text{Commission (varies)}$$

% of Sales

Commission

Tim Sal = \$1000 CR = 5%

 Comm = \$800

① what's Earnings 1800 ② what's Amount Sold?

800 = 5% of ?

$$\frac{\text{Amt of Chg}}{\text{Start Amt}} = \frac{\% \text{ of Chg}}{100}$$

Increase	decrease
growth	decline
Appreciation	depreciation
markup	d. count