Applications of percent.

We can use the following structure to solve many percentage problems!

A basketball player successfully makes 82 out of 120 free throws. What is the players successful free throw percentage?

$$\begin{pmatrix} \% \\ \text{free throws} \end{pmatrix} \bullet \begin{pmatrix} \text{Total} \\ \text{free throws} \end{pmatrix} = \begin{pmatrix} \text{Successful} \\ \text{free throws} \end{pmatrix}$$

$$x = \begin{cases} x = \\ x = \\ x = \end{cases}$$

The population of a large city is 60% female. If the total population of the city is 584,855 people, how many females are in this population?

At a Community College 32% of a graduating class took statistics. If 360 students from this graduating class took statistics, how many students are in this graduating class?

How much alcohol and water is in a 60 ml bottle of alcohol solution

marked 35% alcohol?