## 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?


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?
$(\%) \cdot($ Total $)=($ Portion $)$


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?
$(\%) \cdot($ Total $)=($ Portion $)$
$\binom{\%}{$ Alcohol }$\bullet\left[\begin{array}{c}\text { Amount } \\ \text { of } \\ \text { solution }\end{array}\right)=\left(\begin{array}{c}\text { Amount } \\ \text { of } \\ \text { alcohol }\end{array}\right)$

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