## Vocabulary: Estimating Population Size

## Vocabulary

- Percent error - the difference between an estimated value and the true value, expressed as a percent.
- Use the following equation to calculate the percent error:

$$
\text { percent error }=\frac{\text { estimated value }- \text { actual value }}{\text { actual value }} \cdot 100
$$

- For example, if the actual value is 200 and the estimated value is 175 , then the percent error is calculated as follows:

$$
\begin{aligned}
\text { percent error } & =\frac{175-200}{200} \cdot 100 \\
& =\frac{-25}{200} \cdot 100 \\
& =-12.5 \%
\end{aligned}
$$

- A negative percent error means the estimated value is less than the actual value.
- A positive percent error means the estimated value is greater than the actual value.
- Population - an entire group of objects or individuals.
- Sample - a part of a population selected to represent the population.

