Populations and Samples

A **population** is the whole set of subjects or objects being studied. A **sample** is a smaller part or subset of a population.

It is easier to gather data from samples. If a sample is representative of its population, it can be used to make generalizations about that population.

example: A factory produces 20,000 cans of soup daily. Quality testing each can is not realistic. Instead, 50 random cans are tested.

The **population** is all 20,000 cans of soup produced.

The **sample** is the 50 cans of soup tested.



3. *Smart Electronics* magazine is verifying the battery life claims for this year's Model X phones. They test 10 phones under different usage conditions.

What is the **population**?

all new phones made this year all Model X phones made this year 10 tested Model X phones



ANSWER KEY

Populations and Samples

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Preview

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ANSWER KEY

Populations and Samples

4. A video game company wants to know how long, on average, it takes to beat Jream's Journey. It pulls data from 350 players who beat the game.

