



Name: _____ Date: _____

Student Exploration: Estimating Population Size

Vocabulary: percent error, population, sample

Prior Knowledge Questions (Do these BEFORE using the Gizmo.)

1. A jar contains 100 marbles total. Some are black. If you pull 4 marbles out and 1 is black, how many out of the 100 marbles would you guess are black? _____ Explain. _____

I would guess that 25 marbles out of the 100 are black because from the sample $\frac{1}{4}$ or a quarter was black out of the 4 marbles sample.

2. A different jar has 100 black marbles. (The total number of marbles is unknown.) If you pull 4 marbles out and 1 is black, what is your guess for the total number of marbles? _____ Explain. _____

I would guess that the total number of marbles is 400 since the estimated black marble data is 25%. Based on knowing it is 25%, we can find the total number by multiplying total number of 100 black marbles by 4 since it is the same ratio between number of black marbles to total.

Gizmo Warm-up

In the *Estimating Population Size* Gizmo, you will estimate the total number of fish in a pond. You will do this by tagging and releasing a certain number of fish, and then "recapturing" some.

To change the number of fish to tag or catch, drag the slider, or click on the number in the text field next to a slider, type a new value, and hit **Enter**.



1. Suppose a scientist tags 100 fish, and releases them. (Set the **Tagged fish in pond** to 100 to show this.) Later, a fisherman catches 50 fish from the same pond. (Set **Fish to catch** to 50 to show this.) The fisherman's catch is a **sample** of all fish in the pond.

Estimating Population Size Gizmo Answers

Albert A Gayle

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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