

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? I would guess around 25. Explain. The reason I would guess 25 is because $\frac{1}{4}$ is the ratio of black marbles to other marbles being pulled out of 100 and $\frac{1}{4}$ of 100 is 25.
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? 400
Explain. I would say 400, because $\frac{1}{4}$ of 400 is 100.

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.
 - A. Click **Catch and check**. Look at the **Results** table. How many tagged fish did the fisherman catch? 19
 - B. What percent of the fish in his sample were tagged? 38%
2. At the bottom of the Gizmo, select **Show total fish in pond**. How many fish are in this

Estimating Population Size Gizmo Answers

SJ Ball



Estimating Population Size Gizmo Answers:

Embark on a breathtaking journey through nature and adventure with Explore with is mesmerizing ebook, Witness the Wonders in **Estimating Population Size Gizmo Answers** . This immersive experience, available for download in a PDF format (PDF Size: *), transports you to the heart of natural marvels and thrilling escapades. Download now and let the adventure begin!

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