



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

BM King



Estimating Population Size Gizmo Answers:

Journal of the American Veterinary Medical Association American Veterinary Medical Association,2010

Estimating Population Size Using the Network Scale Up Method Rachael Maltiel,2013 We develop methods for estimating hard to reach populations from data collected using network based questions on standard surveys Such data arise by asking respondents how many people they know in a specific group e g people named Michael intravenous drug users The Network Scale up Method NSUM is a tool for producing population size estimates using these indirect measures of respondents networks Killworth et al 1998a b proposed maximum likelihood estimators of population size for a fixed effects model in which respondents degrees or personal network sizes are treated as fixed We extend this by treating personal network sizes as random effects yielding principled statements of uncertainty This allows us to generalize the model to account for variation in people s propensity to know people in particular subgroups barrier effects such as their tendency to know people like themselves as well as their lack of awareness of or reluctance to acknowledge their contacts group memberships transmission bias NSUM estimates also suffer from recall bias in which respondents tend to underestimate the number of members of larger groups that they know and conversely for smaller groups We propose a data driven adjustment method to deal with this Our methods perform well in simulation studies generating improved estimates and calibrated uncertainty intervals as well as in back estimates of real sample data We apply them to data from a study of HIV AIDS prevalence in Curitiba Brazil Our results show that when transmission bias is present external information about its likely extent can greatly improve the estimates

A New Method of Estimating Population Size, Survivorship, and Birth Rate from Capture-recapture Data B. F. J. Manly,M. J. Parr,1968 **Estimating Population Size in the Particle Scanning Context** Lalitha Padman Sanathanan,1969 *Simulation Comparison of Models for Estimating Population Size from Incomplete Counts* Hsiu-Ching Wei,1988 Estimating Population Size with Exponential Failure Saul Blumenthal,Richard Marcus,1973

Statistical Inference and Designs for Estimating Population Size Kin-sun Chan,University of Hong Kong,1998

Statistical Inference and Designs for Estimating Population Size ,1999 A New Method of Estimating Population Size, Survivorship, and Birth Rate from Capture-recapture Data Bryan F.J. Manly,M. J. Parr,1968 **Estimating Population Size by Means of Mark-resighting Counts: Theoretical Considerations and Empirical Results** Lorenzo Fattorini,2007

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