Lesson 3.4: Deciding on Kind of Sampling and How Many to Sample

Slide 1: Deciding on Kind of Sampling and How Many to Sample

Deciding on Kind of Sampling and How Many to Sample

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Slide 2: Learning Objectives

Learning Objectives

Decide how many people you need to sample for your research project

Determine which kind of sampling you will use

Slide 3: Determining Needed Sample Size

Determining Needed Sample Size





Depends on need for credibility

Depends on level of risk

First focus on purpose

Slide 4: Ever Hear "Sample 400 for an Internet Survey"?



Non-Scientific Reasons to Adjust Sample Size



Client can accept higher levels of error

Increase public perception of credibility

400 not "cool"

1000+ sounds credible on media

Slide 6: Aim for 5% of Margin of Error

Aim for 5% Margin of Error

Use Margin of Error or Sample Size Calculators



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Margin of Error Calculator

Enter a population size and a sample size to calculate the theoretical margin of error, plus or minus in percentage points, 95% of the time, on questions where opinion is evenly split.

Population size	
Sample size	
Margin of error	Calculate Error
	Reset

Other calculators:

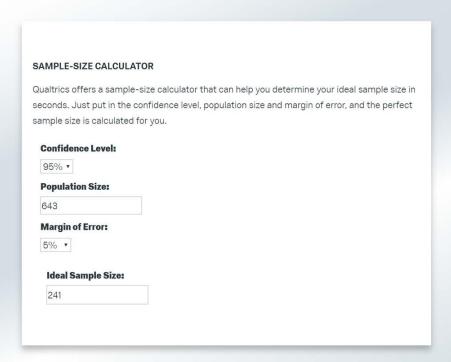
Sample Size Calculator, Ballot Lead Calculator

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Slide 7: Adjusting for Smaller Sample Size

Adjusting for Smaller Sample Size



Sample customer base

Use Sample-Size Calculator

Sample-Size Calculator courtesy of Qualtrics

Consider Various Sampling Methods

Random sample is most common

Used to exclude bias or systematic errors

Best for results that represent population, rigid



Slide 9: Convenience Sample

Convenience Sample



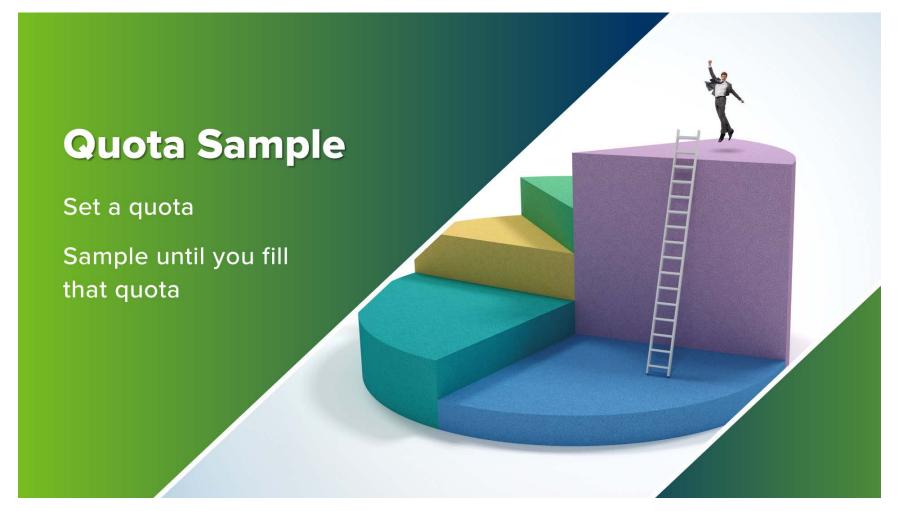


Sample the first people you find

Major advantage is time

Use only in low-risk situations

Slide 10: Quota Sample



Slide 11: Snowball Sample

Snowball Sample



Start with existing sample

Use when it's hard to find qualified participants

Used for in-depth or executive research (seeking key informants or key opinion leaders)

Slide 12: Sample Method Depends on Constraints and Goals

Sample Method Depends on Constraints and Goals

Many other ways to sample

Consider constraints and goals

Use what makes most sense for your situation



Slide 13: More on Quota Sampling



Slide 14: Compare and Contrast Sample Methods

Compare and Contrast Sampling Methods



Quota Sample similar to Convenience Sample

Snowball Sample for different situation

Snowball Sample Example

Find people with osteoporosis

Osteoporosis support group gathers that target

Ask that targeted group for referrals and contacts of others with osteoporosis



Slide 16: Snowball Sampling Used with Business Leaders

Snowball Sampling Used with Business Leaders Business leaders know others in their field Ask them to recommend peers Purposely biased to get data from targeted niche