Hierarchy of concepts

Research Area \rightarrow Research Topic \rightarrow General Research Questions \rightarrow Specific Research Questions \rightarrow Data Collection

Research Questions

- Role
 - o organise research
 - o delimit research,
 - keep research focused
 - o provide framework
 - o identify necessary data
- Appropriate Q are specific, clear, empirical, relevant

Questions can arise from personal experience, curiosity, state of knowledge

Research Design

- type of design is determined from a clearly defined research question
- specifies the approach that will be adopted to address your research question.
- Types:
 - Qualitative Design
 - interview, focus groups, observations
 - detailed results, qualitative data,
 - small sample size
 - Aim identity and explore issue in depth not generalise findings i.e. why do people oppose Marriage Amendment Act – sit down/explore reason/factos
 - Survey Design (non-experimental design)
 - Quantitative to describe occurrence of incidence
 - Quantify and describe attitudes/opinion
 - Large sample size to
 - Aim to generalise finding
 i.e. To what extent does Australia support same sex marriage talk bout
 level of support
 - Experimental Design
 - quasi experimental, 2group comparision,physical control, statiscitcal control, btw participant,w/in
 - Attempt to determine the effect of variables on other variables
 - Control and Manipulate
 - IV (change) and DV (measure)
 - Hypothesis testing
 - hypo formulated from theory/past research
 - purpose of experiment is to test hypo (never proved= supported)

i.e .Are females more inclined to support Marriag Act than men – determine if gender has influence on support

Sampling

- Sample: subset of people from the population
- Population must be representative of population for sample good estimator
- sample sizes less expensive/difficult& not necessary sample whole pop if u get rep.
- researchers can only take people who volunteer/agree participate
- Types: Probability and Non-Probability Sampling

Probability

• best way achieve representative sample = sample randomly achieved through probability sampling bc everyone has equal proability to be selected

1. Simple random sampling

- each member has equal probability of being chosen
- List of people in available population are assigned number
- Sample of numbers are randomly selected
- i.e. choosing name out of hat/computer random selection

2. Systematic random sampling (interval sampling)

- List of people in available population are assigned number
- A sample interval is chosen (every 10th name)
- Select same from list using sample interval
- i.e. evert 10th name in phonebook

3. Cluster sampling

- when members of population naturally fall into groups (university)
- random select the groups (10/20 schools)
- Randomly select members from those groups

4. Stratified sampling

- researcher divides population into separate groups/clusters (strata) (law students)
- Get total numbers of members in each cluster (ensure proportion is same)
- probability sample is drawn from each group using either simple/systematic sampling

i.e. organise pop into police rank and randomly select people from e/rank

Non-Probability

• problem is have to take whoever/people reasons/motive for participants in surveys

1. Convenience

- subjects are selected due to convenience, accessibility, proximity to researcher
- Easier to recruit for the study

i.e. using student volunteers/stand in shopping mall and asks shopper to complete survey

2. Purposive

• used when want access a particular subset of people, as all participants of a study are selected because they fit a particular profile.

- researchers rely on their own judgment when choosing members of the population to participate in their study.
- researchers need <u>prior knowledge about purpose</u> of their studies so that they can properly choose and approach eligible participants.
- Reject people who don't fit profile and accept those who are of interest study on why high school students choose community college over univ approach high school students ask Are you planning to attend college? and excluded those who say no

3. Snowball

- Where participants are difficult to find
- participants recruit other participants into study
- Steps
 - o identify potential subjects
 - o ask them to recruit other people
 - o repeat until find needed sample size