

Starter 12/19

4.1 #16, #17b,c

(p. 227)

SRS using our calculator (random # generator)

MATH --> PRB --> 5:RandInt(--> enter -->

(____, ____) --> enter enter enter ...

randInt(1, 36)

more good ways to take a sample:

2. **Stratified Random Sample** -
 divide the population into groups (called strata) based on similarities then take an SRS from each group
 ex: how many hours are spent on H.W. per dg for students at BHS
 group: fresh. jr. sr. } SRS of 10 from each
3. **Cluster Sample** - divide population into groups (clusters). Want all kinds of people in each group
 *^{know} Number the groups and take a SRS of groups + survey EVERYONE in the chosen groups
 ex: interested in all AP Stats students in Utah.
 take an SRS of high schools and survey everyone at the chosen schools.

Other Errors: What else can go wrong?

- Undercoverage** Some individuals are left out of the process
 ex: School directory
 - people who opt out of the directory
 - people who transferred late
- Nonresponse** when an individual chosen can't be contacted or refuses to respond
- Response Bias** when someone gives an incorrect response
 ex: Dentist in last 6 months?
 some respond yes even though they haven't.
- Wording of a question**
- Characteristics of the interviewer**
- Anonymity**