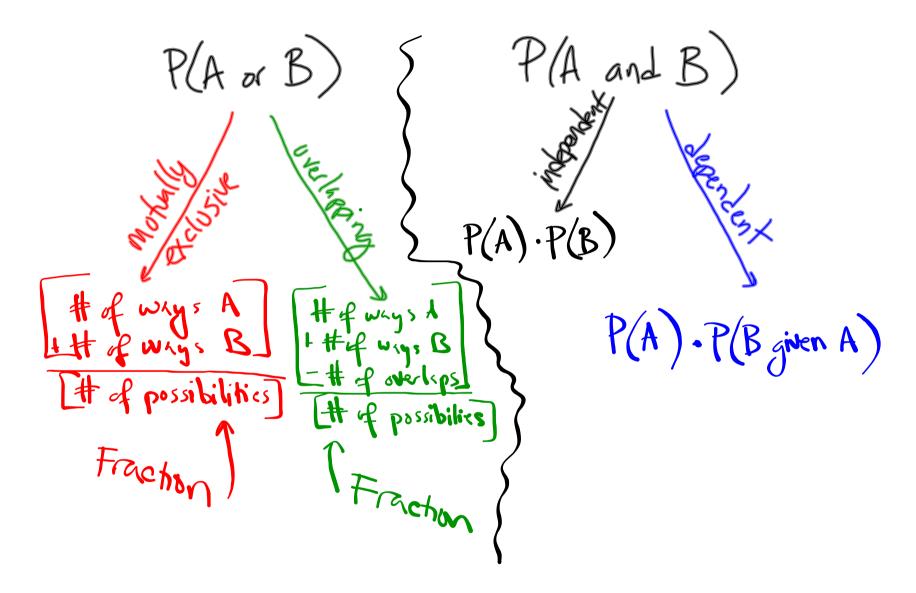
Announcements:

Chapter 13 Test: Tues, 6/12

Final Exam: Fri, 6/15



Homework Review - 13.4

W | S D D M

dependent to draw 2 @

once

S and D

$$6 = \frac{6!}{4! \cdot 2!} = \frac{6.5}{2!} = \frac{6.5}{2!$$

Analyzing Surveys and Samples

List of juestions you're e survey asking people The big group of people — Population

you want to know about

The people in the population — Sample

you actually survey

bample is determined — Random So

completely randomly Random Sample Stratified Random Sample Systematic Sample determines who you ask ask who's eastest Convenience Sample you let people chaose Self-Selected Sample

Classify a Sample Type:

Your school's administrators want to know if students are satisfied with the choices of activities for activity period. In each grade, every seventh student in alphabetical order is surveyed.

group=stratified

tule = systematic

still random

stratified, systematic, random sample

Biased Samples

an I gething random people? could be How can you tell?

Biased samples are not representative of the population

the question will How can you tell?
have "judgement"
words in H

Biased questions encourage or discourage specific responses

Tell whether the survey method used is likely to result in a biased sample.

3. A bicycling club wants to gather information about biking conditions throughout a city. A survey for bicycle riders is posted on the club's website.

biased - excludes biters
not in the club

In Exercises 5 and 6, tell whether the question is potentially biased. Explain your answer.

- 5. Don't you think that the lunch menu should include grilled chicken rather than pizza because grilled chicken is healthier for you? By see (judgement)
- 6. Do you think that the city's excess revenue should be spent on road repairs or building a new sports stadium?

Measures of Central Tendency

Add numbers alvide Mean (Average)
by the number of numbers
the middle value of Median
a list of number (in order)
the most common Mode
number

Find the mean, median, and mode(s) of the data.

1.
$$6, 1, 3, 8, 5, 11, 1, 5 = \frac{40}{8} = 5$$

3. 15, 27, 10, 25, 9, 22, 25

- **2.** 60, 81, 52, 75, 59, 81
- **4.** 23, 6, 8, 14, 28, 8, 13, 28

$$X,X,B,S,S,K,S,H$$

$$\frac{5+5}{2}=5 \pmod{5}$$
modes: \(\text{and } 5\)

Measures of Dispersion

différence between largest/smallest

Figure out how for each # is from the mean-average that distance

Range

Mean absolute deviation

$$(\overline{X} = \text{mean})$$
 $X_{11}X_{21}X_{31}X_{4}$
 $\overline{X} = \frac{X_{11}X_{21}X_{31}X_{4}}{X_{11}X_{21}X_{31}X_{4}}$
 $(\overline{X} = \overline{X}) + (\overline{X}_{21} - \overline{X}) + (\overline{X}_{21} - \overline{X}) + (\overline{X}_{21} - \overline{X})$

Find the range and mean absolute deviation of the data. Round to the nearest hundredth, if necessary.

Homework:

p. 873, 3-11 odd, 15, 16

p. 877, 3-8 all, 11, 13, 20