1 - 1
Collect and Interpret Data

What is data? How do we collect it?

data: pieces of information

population: the whole group

sample: a part/small group

Ex: I am going to survey 1,000 teenagers because I want to know the favorite ice cream flavor of all the teenagers in Hancock County.

sample: 1,000 teenagers

population: teenagers in Hancock Co.

We are going to take a closer
look at 4 types of samples:

random
convenience
systematic
cluster

1. **random**: each person has an equal chance of being picked

   Ex: draw names out of a hat

   Ex: 20 student I.D. #s on computer

2. convenience: easily available

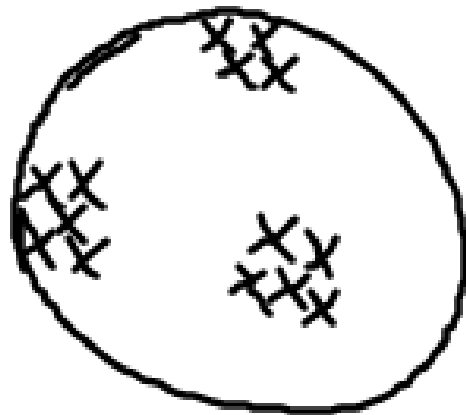Ex: survey people sitting around you

Ex: ask your family/friends

3. **systematic**: put in order and every __th is chosen

Ex: every 3rd person to walk into school

Ex: test the exhaust on every 100th car

4. <u>cluster</u>: choose at random from a particular part of the populati or

Ex: pet stores on North end of town

Partner Activity

With a partner, come up with one more example for each type of survey. Be prepared to share your answers with the class!

Interpreting Data...

Please turn to p.7 and look at example 3.

Homework:

p. 8 #11-27 (skip 16)

**You don't need to list advantages/disadvantages.

#19 none