Warm-Up							June 1,2016
A	1.	In an anonymou "Do you agree In this survey, j) Cultural se ii) Ethics iii) Privacy iv) Use of Lar a. iv	us survey, stud that everyone . which of the ensitivity nguage b.	lents were should bec following m į	asked: :ome a vegetai iight be a prob c.	rian?" blem? ii	d. iii
	2.	Ms. <u>Coplick</u> int In this survey, j) Privacy ii) Timing iii) Use of Lar iv) <u>Cost</u> a. iv	erviewed her : which of the nguage b.	students ar following m ii	nd asked each night be a prob c.	one hov olem? iii	ow much he or she was given each week as an allowance
A	3.	Marissa asked Before her nez What was a pr i) Use of Lar ii) Cost iii) Ethics iv) Timing iii	everyone in he xt test, she ga oblem with Ma nguage b,	er class wh ve her tea rissa's surv ii	at chocolate b cher the choco vey? c.	ar they olate bo iv	y liked best. var he'd said he liked best. d. į

Identify the potential problem: bias, use of language, ethics, culture, cost, time, timing, privacy

A. To determine people's reactions to a possible increase in minimum wage, a student asked: "Don't you agree minimum wage should be increased? Use of language Bia

B. For a class project, a student needed to determine if college students were maintaining healthy weights. After the student completed the project, she gave a weight loss company the addresses of any overweight participants

Ethico Privacy

Section 9.3 Using Sampling and Populations to collect data

Population: the set of all the things or people being considered Census: a data collection using each

member of the population

Sample: a portion of a population.

Valid conclusions:results of data collection that represent what is typical of the population A school wants to survey its grade 9 students to determine which elective courses they would like to take in grade 10. They are considering whether to survey all the grade 9 students or just a sample.



Which would you suggest?

Would your answer change if I told you it was Fredericton High

Census or Sample???

A. What is the best way to collect the data, census or sample?

- 1. The number of Canadian families with internet access? Sample
- 2. To determine the average height of a grade 9 student in your class Censuo
- 3. Reaction to new cell phone ban while driving Sample
- B. Which students in your school would you survey to get their Students who use cafeteria opinion on: quality of cafeteria service

You work at a chocolate factory. Your job is to test the quality of the chocolate do you use a sample or census, explain.





What flavor of ice cream do students at Blackville prefer?





Would we do a census?

Would we pick a sample?

Section 9.4 Selecting a Sample

• Representative sample: the chosen sample represents the population.

We are going to look at 6 sampling methods:

1. Simple Random Sampling-- each member of the population has an equal chance of being picked [Example: drawing a name from a hat]

2. Systematic or interval sampling--Every "nth" person of the population is selected [Examples: testing products like chocolate, appliances]

3. Cluster sampling-- every member of each randomly selected group from a population is selected

[Example: favorite ice cream in school choose one grade and ask all students in that grade]

4. Self-selected sampling-- members of the population volunteer

[Example: choose to participate in a survey on line]

5. Convenience sampling-- members of the population who are convenient to include

[Example: For a survey about how many hours are spent at the rink during winter months, ask people who are at the rink]

6. Stratified random sampling--some members from each group of the population are randomly selected.

[Example: 5 students from each grade selected to answer a survey.]

The basketball team and soccer team are getting new jerseys. To see what color is preferred all of the players on the basketball team were asked the color they wanted. What type of sample is this?





What type of sampling is being used.

[simple random sampling, interval sampling, cluster sampling, stratified random sampling, convenience sampling, self-selected sampling]

A. A car factory subjects every 100th vehicle to a crash test.

B. 6 students from each team [soccer, basketball, golf and volleyball] are selected to complete a survey. stratified

C. A juice company sets up a booth in a local mall and allows anyone who wishes to participate in the taste test to try the juice. Self-selected

D. 15 people from a youth group are chosen by drawing their name from a hat. Rundom

E. To determine who will win the Stanley cup a survey is conducted at a Conveniena local hockey rink

systematic al







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