Math 9		Name:
8.1 – Pot	ential Problems with Collecting Data	Date:
When we co	ollect data for a survey, the data itself can be affected by	bias or the way that it is presented or
There are se	everal factors that can lead to problems with data collecti	ion.
Bias	The wording of the question influences a response in collection. Example: "Don't you Hurnk He private influence" Influence	to favour of, or against, the topic of the data ce of a movie hocket is too high braced work
Use of Language	The use of particular language in the question may le Example: nay lead ppl. to answer " Better question!" What do you make trakets	
Timing	an award.	n athlete right after they will be of winter tires in Dec.

Pri	va	cv

If the question is too personal, a person may not want to participate or may give a false answer. **Example**:

1) " How often do you bruth heath."

@ " Now much do you weigh?"

An anonymous survey would be better!

Cultural Sensitivity

Cultural Sensitivity means that you are aware of other cultures/beliefs. Avoid being offensive or asking questions that do not apply to that culture.

Example:

" What is your fav. way to cook ham?" Assuming all pareat ham.

Better: " If you eat ham, how do you prefer it to be cooked?"

Ethics

Collected data must not be used for purposes other than those told to the participants.

Example:

must not take advantage of data collected.

ez." Ask friends about fau. snacks to help plan your party, but you we the data to sell them their fau. snacks."

Cost How expensive is it to collect the data? Is it worth it?

Time How long will it take to collect and sort the data?

In the following examples, discuss potential problems and how they may be corrected.

1. A survey is conducted to find out if citizens think that the local government should provide more money for youth activities.

The questions asked was: "Would you support an increase in taxes to create more skate parks?"

Bras! mentions taxes would incr.

better q: "Should gour. provide more money for youth activities?"

2. A survey is conducted to find the level of school spirit. Students are polled about their level of school spirit after the Basketball team wins the Provincial Championships.

Problem! Himing! >> would be higher school spirit than normal.

Solution: Ask survey question a month later/earlier when no school event is occurring.

3. A local Inuit group is planning to open a store in Vancouver that would sell traditional Inuit Crafts. To ensure that Vancouver is the best place for their business, the group wants to survey all households to find out how popular Inuit Crafts are. Explain why this is problematic.

Time: There are no many houses to ursit!

to thigh: mailing cooks Stamps, envelopes, flyers.

Sorting data.

4. Judy wants to find out if there is a relationship between household income and how much people spend on Christmas presents.

Cutural sens: Nor everyone celebrates christmas.

Privacy: pp. may nor want to reval Herr income.

Better: "If you celebrate christmas, is the amount sport on presents!

> weekly income?

2 " "?

or = " "?

Assign: p. 435: # 3-10