

Statistics and Probability 1

Name: _____

Use the following information to answer question 26.


The following survey question was given to a sample of Grade 9 students:


Do you prefer to use your television to play childish video games or to watch educational programs?


26. Data collected by this survey may be **most** influenced by a problem related to
- A. ethics
 - B. privacy
 - C. use of language
 - D. cultural sensitivity

Jonas conducts a survey to determine which flavour of ice cream is the favourite among the students at his school. He plans to hand out the questionnaire shown below to 100 randomly selected students.

Which of the following ice cream flavours is the best?

 Strawberry

 Chocolate

 Vanilla

36. The analysis of the data collected by this survey would be **most** affected by issues related to
- A. privacy
 - B. use of language
 - C. time and timing
 - D. cultural sensitivity

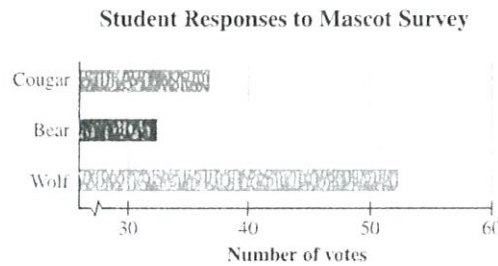
During lunch?
After lunch?
Before lunch?

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Use the following information to answer question 23.

The student council of a senior high school surveyed 120 out of 250 Grade 10 students to determine which of three animals should be the school's new mascot. The results of the survey are shown below.



grade 11/12?
other grades?

23. What potential bias exists in the data collection for this survey?

- A. The survey question is confusing.
- B. The survey took too long to complete.
- C. The sample does not represent the population.
- D. The participants' cultural beliefs were not considered.

Use the following information to answer question 40.

Ethan conducts a survey to determine the demand for an outdoor skating rink in his community.

40. Ethan can **best** minimize the bias in his survey by collecting data from people who

- A. are different ages → why would they matter
- B. live in different cities
- C. participate in figure skating → what about hockey or leisure?
- D. visit the rink at the same time each day → could pick a bad time

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Use the following information to answer numerical-response question 8.

Consider the following four surveys.

- 1 Customers in an electronics store are asked whether they would purchase last year's model of a television or wait for this year's new and improved model.
- 2 A random sample of Grade 9 boys is asked to determine which snacks should be available in the school's vending machine.
- 3 During the summer, every household in a large community is asked to complete a detailed questionnaire to help determine whether the local skating rink should be renovated.
- 4 Grade 6 students are asked how many times they wash their hair each week.

last years is worse?

Girls?

no one cares about the rink in summer

→ none of your business

Numerical Response

8. Match each survey listed above with the potential data collection problem it best represents.

Survey:	<u>2</u>	<u>1</u>	<u>4</u>	<u>3</u>
Data collection problem:	Bias	Use of Language	Privacy	Time and Timing

(Record all four digits of your answer in the numerical-response section on the answer sheet.)