



## Warm Up

Date: Feb. 5



Write a better question:

1. Do you get a lot of sleep on school nights?  Yes  No

How much sleep do you get on School nights?

2 hrs 3-5hr 8 to 10hr other

2. What is your favorite reality shows?

(Need more options)

Survivor

The Amazing Race

Highway 401

other

Judge Judy

Northwood Law

3. Do you prefer greasy potatoes or healthy carrots?

↓  
negative

(Don't put extra information)

Do you prefer potatoes or carrots?

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# 2 abc

# 4 bc

# 5

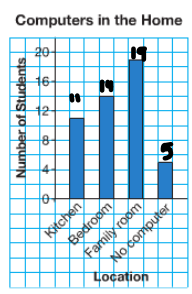
**Practice**

- Design a questionnaire for collecting data to answer each question. Give at least 4 possible answers for your question each time.
  - What is the favourite food of Grade 6 students?
  - What is the favourite pet of students in your school?
  - Who is the favourite athlete of people in your province or territory?

1a) Which food is you favorite? Check one of the boxes or fill out the blank.  
 Pizza     Hamburgers     Hotdogs     Spaghetti    Other \_\_\_\_\_

1b) Which pet would you prefer? Check one of the boxes or fill out the blank.  
 \_\_\_ cat    \_\_\_ dog    \_\_\_ fish    \_\_\_ hamster    Other \_\_\_\_\_

- This graph shows the results of a questionnaire.
  - Write what the question might have been.
  - Can you tell how many students were given the questionnaire? Explain. *read the bar heights*  
 $11+14+19+5 = 50$
  - Write 2 things you know from this questionnaire.



2a) Which room do you keep your computer in? Check one of the boxes or fill out the blank.  
 \_\_\_ Kitchen    \_\_\_ Bedroom  
 \_\_\_ Family room    \_\_\_ No Computer

2c) Most people keep their computer in the family room  
 More people have computers than don't have computers

- Think of a questionnaire you could hand out in your school.
  - Write a question you could ask.
  - How do you know if your question is a fair question?

- Each question (written in italics) can be improved. Write a better question for each. Explain why you think it is better.
  - To discover how much time each person spends doing homework each day:  
*Do you spend a lot of time each day doing homework?*
  - To find out how students get to school:  
*Do you usually walk to school or ride your bike?*
  - To find out the favourite type of TV programs:  
*Do you prefer to watch mindless comedies or exciting dramas?*

4a) How much time do you spend on homework each day? Check one of the boxes or fill out the blank.  
 None     less than 20 min     between 20-40 min     an hour  
 Other \_\_\_\_\_

This question gives people a choice and replaces "a lot" with exact amounts, since everyone interprets a lot different ways

4b) How do you travel to school each morning? Check one of the boxes or fill out the blank.  
 Bus     Walk     Bike     Car (with adult)    Other \_\_\_\_\_

This question gives people a choice

4c) Which type of movie would you rather watch? Check one of the boxes or fill out the blank.  
 Drama     Comedy     Sci-Fi     Horror    Other \_\_\_\_\_

This question gives choices and does not imply one choice is better than then other. The word mindless makes this question bias

5. Ariel wanted to find out what the Grade 6 students in her school wanted to be when they left school. She wrote this question.

What do you want to be when you leave school? Check one.
Astronaut <input type="checkbox"/> Designer <input type="checkbox"/> Mechanic <input type="checkbox"/> Nurse <input type="checkbox"/>

Ariel gave this question to the 76 students in Grade 6. Forty-five people answered the question. Here are the results. Ariel concluded that most students will become astronauts or designers when they leave school.

- a) Is Ariel's conclusion valid? Explain.  
 b) What might Ariel have done to improve her question?



Occupation	Boys	Girls
Astronaut	HHH HHH	HHH III
Designer	HHH	HHH HHH I
Mechanic	III	I
Nurse	II	HHH

a) Ariel's conclusion is not valid since there are so many jobs out there that are not a choice.

b) Ariel should include an other blank so that students could add a choice that is not on the list.

6. Two people want to open a shoe store at the local mall. They want to know what types of shoes they should stock.
- a) How could a questionnaire be helpful?  
 b) Design a questionnaire the people could use to help them make the best decision.



7. What is your classmates' favourite way of keeping in touch with their friends?
- a) Make a prediction. **Cell phone**  
 b) Design a questionnaire you could use to find out.  
 c) Ask the question. Tally the results.  
 d) How did the results compare with your prediction?

8. What is the favourite type of music of students in your class?
- a) Design a questionnaire you could use to find out.  
 b) Predict the results of your questionnaire.  
 c) Ask the question. Record the results.  
 d) How did the results compare with your prediction?  
 e) What else did you find out from your questionnaire?

Collect this question

## Attachments

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Alphabet Experiment.docx

Blinking Experiment.docx

Spoon Experiment.docx