

Section 11.2 Extra Practice

1. For each situation:
 - Identify the population.
 - Decide if you would survey the population or a sample. Justify your choice.
 - a) Determine the reliability of a new cell phone.
 - b) Determine the games that grade 9 students want to play at a winter carnival.
 - c) Determine the number of Arctic grayling in Lake Athabasca.
 - d) Determine which style of jacket the members of a Hunters and Trappers Association prefer.
 - e) Determine if the owners of a riding arena can recover the cost of a new roof by increasing the rental cost of the arena.
 - f) Determine the amount of time that grade 9 students spend on physical activity in a week.
 - g) Determine how many people would use a library in a new subdivision.

2. A city council wants to survey residents about building a new water treatment plant. For each survey:
 - Identify the type of sample.
 - Describe how the survey could be set up.
 - Explain whether the results would accurately represent the population.
 - a) The council plans to survey 1000 residents. The city has 50 000 residents who own their home, 10 000 residents who own their condominium, 30 000 residents who rent apartments, and 10 000 residents who rent homes.
 - b) A councillor plans to survey all the residents who own homes in her area of the city.
 - c) The council plans to survey residents using a list of names in the phone book.
 - d) The council plans to set up a poll at the four grocery stores in the city and survey 100 people at each store.