

11.2 Population & Samples

POPULATION AND SAMPLE TYPES

		ould survey the ning.
Population vs. Sample	Population: Everything being studied Sample: a small group from pop.	nd s, es
Convenience Sample	Sample created by those easily accessible. ex. First 10 people who enter the school.	s ools
Random Sample	Selecting a "specific" person from a random group ex. choosing a name from a hat.	y of turer.
Stratified Sample	a sample created from splitting the pop. into groups & choosing a percentage from each. ex. 10% of all grade 7, 8, 9, Staff.	h
Systematic Sample	a sample created from selecting every person from a set interval from a list. ex. choosing every 10th person from alphabetized student list.	
Voluntary Response	Survey everyone, only those who want to respond will.	not

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Example 2: Identify The Sample

For each situation, describe how the sample could be selected. Identify the type of sample.

Ex. 2	A teacher wishes to get feedback from her class about the school dance. She plans to survey 5 students out of a class of 30. Random - choose from hat
Ex. 2	A telephone company wants to determine whether a fitness centre would be well used by its 3000 employees. The company plans to survey 300 employees. Systematic - 10th person from list
Ex. 2	A chain store is trying to decide whether to open a store in Camrose, Alberta. The company decides to survey people in Camrose and three nearby towns. Camrose - 16000 Bashaw - 825 Tofield - 1876 Daysland - 876 Stratified - groups
Ex. 2	A marketing research company mails surveys to all of the adult residents in a town. The survey asks about brands of consumer products. The residents are asked to mail their responses in a prepaid envelope. Voluntary - choose to respond.
Ex. 2	A restaurant owner wants to know the favourite pizza topping of his customers. He plans to survey every customer who orders a pizza in his restaurant between 5:00 p.m. and 10:00 p.m. one evening. Convenient - easy to access
SIK	<ul style="list-style-type: none"> A coach puts the names of all of the basketball players into a hat and draws one name for a free basketball. A questionnaire is sent to every ninth person on an alphabetical list of a store's credit card customers. The student council invites all students to provide ideas for activities.

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Example 1: Identify The Population

Identify the population for each situation. Then, state whether you would survey the population or a sample of the population. Explain your reasoning.

		Identify the type
Ex.1	<p>A bicycle store owner wants to know which brand of mountain bike her customers prefer.</p> <p>Pop. bicycle store customers</p> <p>Sample: could be a lot of customers, not all could be buying bikes</p>	out of a
Ex.1	<p>The school board wants to know how many hours of homework students do each day.</p> <p>Pop. students at all division schools</p> <p>Sample - too many</p>	years. list
Ex.1	<p>A candle manufacturer wants to know how many of its candles are made with flaws.</p> <p>pop. all candles.</p> <p>Sample - depends on size of manufacturer.</p>	store - 876
SK	<p>The Royal Garden restaurant needs to know which main dish its customers favour.</p>	sks e
SK	<p>Stephan wants to find out if teachers in Canada prefer to wear glasses or contact lenses.</p>	za een
SK	<p>A junior hockey team wants to find out why some people who bought season tickets last year are not buying them this year.</p>	into a hat alphabetical list for

