Name:	Date:
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## 11.2 Collecting Data

## **Check Your Understanding**

## **Communicate the Ideas**

- 1. Kris decides to survey everyone in Canada to find out which bands are the most popular.
  - a) Is this a survey of a sample or a population? Circle SAMPLE or POPULATION.
  - **b)** Do you agree with his method? Circle YES or NO. Give 1 reason for your answer.
- **2.** Kim and Scott want to know how many people took public transit to a concert. There are 18 000 people at the concert.

Kim:

I plan to ask the first 20 people who arrive.

Scott:

I plan to ask
the first
200 people.

- **a)** Whose sample best represents the population? Circle KIM or SCOTT. Give 1 reason for your choice.
- b) What other type of sample would give more accurate results?

Give 1 reason for your answer.

correct

**3.** Describe the difference between surveying the population of British Columbia and surveying a sample of people who live there.

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Pra	actis	se			
4.	Wr	rite the matching letter beside the type of sample that should be use	ed for the situation.		
	a)	A large school surveys 20% of the students from each grade.	random		
	b)	The school store asks the first 20 customers what type of juice they like the best.	voluntary		
	c)	A company picks every 100th person in a phone book.	convenience		
	d)	In a class of 40 students, each student is assigned a number. The teacher picks 5 numbers from a hat.	stratified		
	e)	Students are asked to do an online survey if they wish.	systematic		
5.		rite the population in each situation. Would you survey the whole pulation? Give 1 reason for your answer.	opulation or a sample of the		
	a) The principal wants to know if teachers and students are in favour of school uniforms.				
		Population:			
		I would survey because because			
	b)	An electronics store wants to know if its customers are happy with	h the repair department.		
		Population:			
		I would survey because			
	c)	The town wants to know if buses are needed for people with disab			
		Population:			
		I would survey	Miller William		
		because			

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	For each situation, would you survey the population or a sample? Give 1 reason for your answer.			
a	To determine the air quality in hospitals in Edmonton, Alberta:			
	I would survey	because		
b	To find out the plans of grade 9 students after they graduate from high school:			
	I would survey	because		
c	c) To test the quality of parachutes:			
	I would survey	because		
d	To test the quality of bike tire	es:		
	I would survey	because		
S	Cristi wants to create a menu for Her family includes 20 adults, 8	<b>7</b> 1		
_				
	Erin plans to survey her friends t	to determine the average number of children per household in		
C	<u> </u>			

(a)	me:	Date:		
•	Jason wants to ask each student who enters the cafeteria the following question.	What is your favourite paint colour for the cafeteria walls?		
	a) What is the population?			
	b) What is the sample?			
	c) Will his results accurately represent the population? Cir. Give 1 reason for your answer.			
- VI	lath Link			
۷r	ite a research question about an endangered animal.			
1)	What endangered animal will you research?			
)	Find the size of the animal's population before it was endanged	ngered		
	What is the population now?			
<b>(</b> )	What is 1 reason for the decline of the population?			
<b>l</b> )	Write a question that you can research about the endangere	ed animal.		
	Res	search Question: What are the population trends for beluga whales in Canada?		
	answer your question, find data from studies and veys that other people have done.			
	What sampling method did researchers use			
)	to collect the data?	Beluga whale, Somerset Island, Nunavut		