MATH 7

Write your questions here!

Is the soup good?







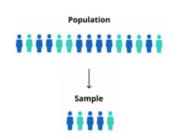
Census



Polls



POPULATION =

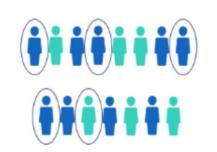


SAMPLE =

A sample represents _____

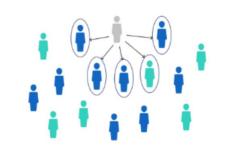
Sampling Techniques

Sample



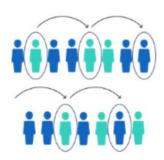
Each member of the population has an equal chance of being selected.

Sample



The sample contains those members of the population from which data are most easily collected.

Sample



Every n^{th} member of the population is selected.

Example: every 3rd person is selected

Mr. Brust wants to know if the 7th grade class would like to have a spring dance.

Population = _____

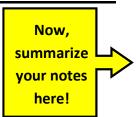
Sample Types:

- 1. Ask every 7th grader = _____
- 2. Ask the 7th graders in his seminar = _____
- 3. Get a list of 7th grade class.

 Randomly select 20 students = ______
- 4. Get a list of 7th grade class.

 Ask every eighth student on the list = ______

SUMMARY:



	each situation, identify the population an	•
1.	Mikayla surveyed her science class to ident	ify the K pop group most listened to by the students in her grade.
	Population =	Sample =
2.	David is interested in politics in his town. For vote for in the upcoming election.	He stands at a busy street corner asking people whom they plan to
	Population =	Sample =
3.	The counselor at Generic Middle School we 20 students to their office and asks them the	onders about the GPA of the students. The counselor randomly calls eir GPA.
	Population =	Sample =
4.	Dwayne owns a fitness center. He asks me Thon to raise money for a local charity.	mbers at the 5 o'clock Spin class if they would like to have Lift A
	Population =	Sample =
Id	entify the sampling technique for each sce	enario. Simple Random, Convenience, or Systematic Sample.
5.	A bottled water company wants to find out	why people choose a particular brand of bottled water.
	(A) Call every 20th person who mails in a of their bottle of water.	a coupon as part of a money-back offer on the purchase
	(B) Call 400 numbers chosen randomly fi	rom all the residential phone numbers in the city.

(C) Ask the first 20 people seen carrying bottled water in a park on a summer day.

For 6-10, use the situation to answer the following questions.

Sully loves Pokémon. He has a huge stack of Pokémon cards. He wants to know if he needs more "water" type cards so decides to sample his cards. He has several ideas for sampling his cards.

6. What is the population?		
Sampling ideas:		
7. Pull the top 8 cards off the top of the stack.	8. Put the cards in a bag and randomly select 8 cards.	
What type of sample is it?	What type of sample is it?	
(A) Simple Random Sample	(A) Simple Random Sample	
(B) Convenience Sample	(B) Convenience Sample	
(C) Systematic Sample	(C) Systematic Sample	
(D) Census	(D) Census	
9. Pull every 5 th card from the stack.	10. Look at every card in the stack.	
What type of sample is it?	What type of sample is it?	
(A) Simple Random Sample	(A) Simple Random Sample	
(B) Convenience Sample	(B) Convenience Sample	
(C) Systematic Sample	(C) Systematic Sample	
(D) Census	(D) Census	

For 11-13, use the situation to answer the following questions.

Generic Middle is setting up a student council to represent the 150 students in 6^{th} grade. They have several ideas for sampling the 6^{th} graders.

11.	What is the	population?	

Sampling ideas:

12. Take the first 10 students that show up to school on Tuesday.

What type of sample is it?

- (A) Simple Random Sample
- (B) Convenience Sample
- (C) Systematic Sample
- (D) Census

13. Randomly number all the 6^{th} graders. Take every 12^{th} sixth grader on the list.

What type of sample is it?

- (A) Simple Random Sample
- (B) Convenience Sample
- (C) Systematic Sample
- (D) Census

11.1 Sampling WRAP UP

Identify the population and the sample. Then determine what type of sample it is.

1.	A company wants to know the favorite popsicle flavor of residents in the town of Mathville. The company
	numbers every resident in Mathville and randomly selects 100 residents to ask their favorite flavor of popsicle

Population = _____ Sample = _____

- 2. What type of sample is it?
 - (A) Simple Random Sample
 - (B) Convenience Sample
 - (C) Systematic Sample
 - (D) Census

EXIT TICKET –

Generic High School has 204 students in the band. The booster club wants to know if they should sell band hoodies or band t-shirts. Explain how to create a sample using...

(A) Simple Random Sample:

(B) Convenience Sample:

(C) Systematic Sample: