LESSON MAKER PRO

Who Was Asked?

Find the whole group and the group studied.

GRADE 7 · 7A.DSP.A.26.a

7A.DSP.A.26.a "Differentiate between a sample and a population."

NAME _____ DATE _____

THE BIG IDEA

A population is the whole group a question is about. A sample is a smaller group chosen from that population to provide information. Ask yourself whose views matter, then who was actually asked.

WORKED EXAMPLE

A robotics club wants to know what its members think of a new meeting time. Use the table to name the population and sample.

ROBOTICS CLUB

Group	Students
All club members	84
Members asked	13

1. The question is about all 84 club members.
2. Only 13 members were asked.

Answer: Population: all 84 club members. Sample: the 13 members asked.

PRACTICE 4 problems

1 A music app asks 22 of its 310 users about a new feature. Who is the sample?

ANSWER _____

2 A coach asks 12 of her 48 players about practice times. Who is the population?

ANSWER _____

3 All 36 students in a class answer a survey about the class playlist. Is the group surveyed a sample or the population?

ANSWER _____

4 A library asks 19 of its 260 teen members about weekend hours. Name the population and sample.

ANSWER _____

APPLY IT Show your work

1 A game club wants to know what everyone at its tournament thought of the event. Use the table to name the population and sample.

TOURNAMENT FEEDBACK

Group	Students
Attended	76
Returned feedback forms	29

ANSWER _____

2 A school store wants to know which hoodie design its 425 shoppers prefer. It asks 35 shoppers. A student calls the 425 shoppers the sample. Explain the mistake and name the sample.

WORK SPACE

ANSWER _____

CHALLENGE One step up

A school has 240 seventh graders, including 62 art club members. A student asks 18 art club members which mural design they prefer, then wants to report what all seventh graders prefer. Name the population and sample. Why might the sample miss some views?

WORK SPACE AND ANSWER

ANSWER KEY

Who Was Asked?

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PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	A music app asks 22 of its 310 users about a new feature. Who is the sample?	**The 22 users asked.**
2	A coach asks 12 of her 48 players about practice times. Who is the population?	**All 48 players.**
3	All 36 students in a class answer a survey about the class playlist. Is the group surveyed a sample or the population?	**The population.**
4	A library asks 19 of its 260 teen members about weekend hours. Name the population and sample.	**Population: all 260 teen members. Sample: the 19 teen members asked.**

PART 2 · APPLY IT

1. **Population: all 76 students who attended. Sample: the 29 students who returned forms.** The question is about everyone who attended. Only students who returned forms provided information.
2. **The 425 shoppers are the population, not the sample. The sample is the 35 shoppers asked.** The store's question is about all 425 shoppers. It collected answers from only 35 of them.

CHALLENGE

Population: all 240 seventh graders. Sample: the 18 art club members asked. Students outside the art club were not asked, and their preferences might differ.

Accept group descriptions without counts when they clearly identify the correct people. For the challenge, accept any explanation that the art club members may not reflect the views of students outside the club.