Access by the Numbers

Use survey data to weigh a school decision.

10.CL.2 "Analyze and evaluate information from graphic texts to draw conclusions, defend claims, and make decisions."

NAME _____ DATE _____

1 READ AND MARK

Read it twice

YOUR JOB Circle the plans that fit the budget, underline two table values that support a choice, and write 1 beside a sentence that limits what the survey can prove.

A Place to Study After School

1 Westbrook High wants to give students a quiet place to study after classes. In a planning survey, 80 students reviewed four possible plans and checked every plan they could use. Twenty-eight respondents said their home internet was unreliable. The table summarizes survey answers and estimated weekly costs, not actual attendance or measured learning gains.

2 For the three in-person plans, a teacher would supervise a room until 5 p.m. The bus plans would also provide a ride home. The online plan would offer a supervised video study room from 3 to 5 p.m. Students could select more than one plan, so the attendance figures should not be added together.

SURVEY RESPONSES AND ESTIMATED WEEKLY COSTS

Plan	Students who could attend, of 80	Students with unreliable home internet who could attend, of 28	Weekly cost
Study room, no bus	26	11	$90
Study room, one late bus	48	21	$240
Study room, two late buses	63	25	$480
Online study room	55	5	$180

3 The principal has up to $300 per week for a six-week trial. Her goal is to expand access while considering students whose home internet is unreliable. She can fund only one plan during the trial. Before making a permanent choice, she wants to see whether the number of students who actually participate matches the survey estimates.

2 ANSWER WITH EVIDENCE

Use the passage

1. Which plan could serve the most surveyed students while staying within the weekly budget? Support your answer with two table values.

2. A student says the plan that could serve the most students must be the best choice for the trial. Evaluate that claim using the budget and the table.

3. Compare the one-late-bus and online plans. What trade-off do their survey results show?

4. Why would it be misleading to claim that 55 students will attend the online room each week?

3 YOUR TURN

Your own words

Write a brief memo recommending either the one-late-bus or online plan for the six-week trial. Use two table values to defend your choice, then propose a measurable rule for reconsidering it after the trial.

ANSWER KEY

Access by the Numbers

GRADE 10 · 10.CL.2

PART 1 · READ AND MARK

Circle the plans that fit the budget, underline two table values that support a choice, and write 1 beside a sentence that limits what the survey can prove. Accept any marking that follows this job and points at the right text.

PART 2 · ANSWERS

#	QUESTION	ANSWER
1	Which plan could serve the most surveyed students while staying within the weekly budget? Support your answer with two table values.	**The online study room could serve 55 surveyed students and costs $180 per week, below the $300 limit.**
2	A student says the plan that could serve the most students must be the best choice for the trial. Evaluate that claim using the budget and the table.	**The two-late-bus plan could serve the most students, 63, but its $480 weekly cost exceeds the $300 budget. It cannot be chosen for this trial.**
3	Compare the one-late-bus and online plans. What trade-off do their survey results show?	**The online plan could serve more students overall, 55 versus 48. The one-late-bus plan could serve more students with unreliable home internet, 21 versus 5.**
4	Why would it be misleading to claim that 55 students will attend the online room each week?	**Fifty-five students said they could use the online plan. The survey did not measure how many would actually attend each week.**

PART 3 · YOUR TURN (SAMPLE ANSWER)

I recommend the one-late-bus plan. It costs $240 per week and could serve 21 students with unreliable home internet. If fewer than 15 of those students attend in an average week during the trial, I would reconsider the plan. That rule checks whether the ride improves access for the students the principal wants to reach.

For the memo, accept either named plan if the evidence is accurate and the proposed rule can be checked using trial data. Students should distinguish survey responses from actual attendance.