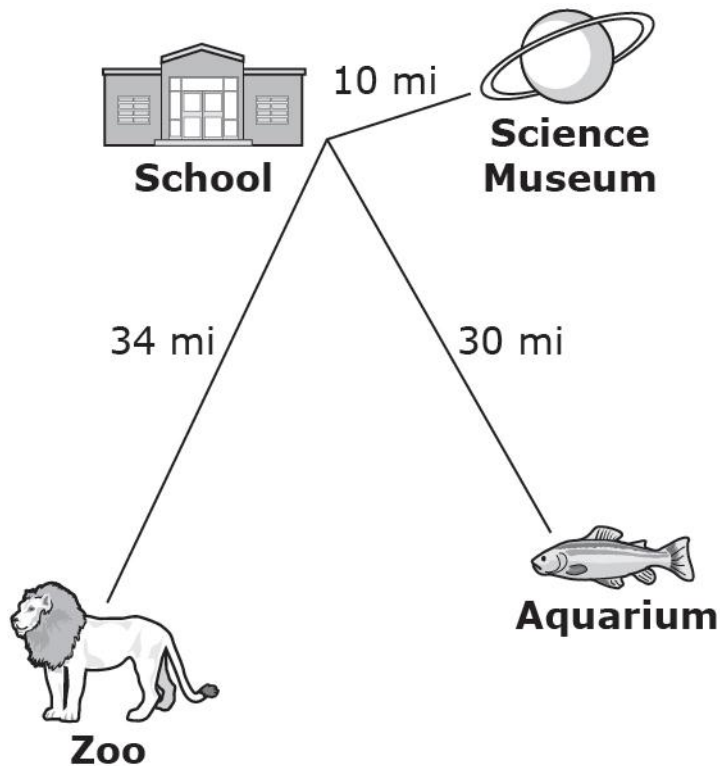


Student Task

Your class and your teacher are going on a field trip. There are three possible choices for the field trip: an aquarium, a science museum, or a zoo. Your teacher asked students to write down their first and second choices. In this task, you will determine where the class should go on the field trip based on the survey results and the cost per student.

This is a map of your school and the three different field trip locations.




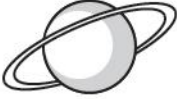

The class voted on which place to visit. These tables show the results.

Name	First Choice	Second Choice
Olivia	Zoo	Science Museum
Grace	Science Museum	Aquarium
Jessica	Aquarium	Zoo
Ruby	Zoo	Science Museum
Emily	Science Museum	Aquarium
Sophie	Aquarium	Zoo
Chloe	Aquarium	Science Museum
Lucy	Aquarium	Science Museum
Lily	Science Museum	Aquarium
Ellie	Science Museum	Aquarium
Ella	Zoo	Science Museum
Charlotte	Science Museum	Aquarium
Katie	Science Museum	Aquarium
Mia	Zoo	Science Museum
Hannah	Zoo	Science Museum

Name	First Choice	Second Choice
Jack	Aquarium	Zoo
Thomas	Zoo	Aquarium
Joshua	Zoo	Aquarium
Oliver	Science Museum	Aquarium
Harry	Aquarium	Zoo
James	Zoo	Science Museum
William	Science Museum	Science Museum
Samuel	Zoo	Aquarium
Daniel	Zoo	Science Museum
Charlie	Aquarium	Aquarium
Benjamin	Science Museum	Zoo
Joseph	Zoo	Aquarium
Callum	Zoo	Aquarium
George	Aquarium	Science Museum
Jake	Science Museum	Aquarium

- Based only on the results of the class votes, where would you recommend the class go on the field trip? Show your work or explain how you found your answer.

Here are some more facts about the trip.

	 Aquarium	 Science Museum	 Zoo
Distance from School (one way)	30 miles	10 miles	34 miles
Bus Charge	\$6 per mile	\$6 per mile	\$6 per mile
Entrance fee	\$6 per person	\$10 per person	\$2.50 per person

- The teacher and parent helpers do not pay an entrance fee.
- There are 30 students in the class.
- Only 1 bus is needed.
- The bus charge is for the entire busload of students (not for each student).
- Each student will pay the same amount.
- The school fund will pay the first \$200 of the trip.

2. Now we will think about the costs of the trip. How much will each student pay to go on each trip? Show your work or explain how you found your answer.
3. Daniel thinks that it will cost less to go to the zoo because the entrance fee is only \$2.50 per person. Explain why you agree or disagree with Daniel's thinking.
4. Write a short note to your teacher stating where you think the class should go on its field trip, based on how you would evaluate all the different factors, including student votes, costs, distance, and what you think would be fun.

Task Specifications

Item Id:	MAT.6.FIELDTRIP.PT
Title:	Taking a Field Trip
Grade:	6
Content Domain(s):	Ratios and Proportional Relationships
Assessment Target(S):	<p>Claim 2, Target A: Apply mathematics to solve problems arising in everyday life, society, and the workplace.</p> <p>Claim 2, Target C: Interpret results in the context of a situation.</p> <p>Claim 2, Target D: Identify important quantities in a practical situation and map their relationships (e.g., using diagrams, two-way tables, graphs, flowcharts, or formulas).</p> <p>Claim 3, Target C: State logical assumptions being used.</p> <p>Claim 3, Target F: Base arguments on concrete referents such as objects, drawings, diagrams, and actions.</p> <p>Claim 4, Target D: Interpret results in the context of a situation.</p>
Score Points:	See Scoring Rubric
Task Purpose:	The purpose of this task is to assess students' ability to use mathematics to make a decision based on understanding of proportional reasoning, including application of unit rates.

Scoring Rubric

Scoring Criteria for Field Trip Task

Scorable Parts	Points	Claims
<p>1. Based only on the results of the class votes, where would you recommend the class go on the field trip? Show your work or explain how you found your answer.</p>	<p>0–1 Point</p> <p>Full credit for correctly answering “Zoo” based on total 1st place votes OR correctly answering “Aquarium” based on total 1st and 2nd place votes OR correctly answering “Science Museum” based on a weighted total for votes.</p> <p>Accept other valid responses.</p>	<p>Contributes evidence to Claim 3, Communicating Reasoning</p>
<p>2. Now we will think about the costs of the trip. How much will each student pay to go on each trip? Show your work or explain how you found your answer.</p>	<p>0–4 Points</p> <p>Full credit for total cost per destination calculated, award 1 point. Total distance per destination calculated, award 1 point. Cost per student per destination calculated, award 1 point. Final answer expressed in correct units, award 1 point.</p> <p>For minor errors (omitting roundtrip mileage, school fund) deduct 1 point for this section.</p>	<p>Contributes evidence to Claim 2, Problem-solving</p>
<p>3. Daniel thinks that it will cost less to go to the zoo because the entrance fee is only \$2.50 per person. Explain why you agree or disagree with Daniel’s thinking.</p>	<p>0–1 Point</p> <p>Full credit for using the calculations in the response above; the student would disagree with Daniel and make the argument that the Zoo option is \$2.10 more than the Science Museum option.</p> <p>Full credit for correct reasoning based on incorrect #2.</p>	<p>Contributes evidence to Claim 4, Modeling</p>

<p>4. Write a short note to your teacher stating where you think the class should go on its field trip, based on how you would evaluate all the different factors, including student votes, costs, distance, and what you think would be fun.</p>	<p>0–1 Point</p> <p>Full credit for a note that includes a recommendation based on reasoning that includes votes, costs, distance, and personal opinion.</p>	<p>Contributes evidence to Claim 3, Communicating Reasoning</p>
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