

Energy and the Environment  
Pre-test Solutions

Please read through the instructions for this experiment before you try to answer these questions.

1. According to the instructions the benefit of driving is 8 and the cost is 4, so the net benefit is 4. The benefit of riding the bus is 3 and the cost is 1, so the net benefit is 2. If these are the only considerations in the game what is the best thing to do?

(Circle one) **Drive** Ride the Bus

2. Suppose that the benefit of driving is 9 and the cost is 3. What is the net benefit of driving?

**6** game points

3. Suppose that the benefit of driving is 6 and the cost is 9. What is the net benefit of driving?

**-3** game points

4. Suppose that the costs and benefits of driving are the same as in problem 3, and the net benefit of driving the bus is 2. If these are the only considerations in the game what is the best thing to do?

(Circle one) Drive **Ride the Bus**

5. Assume that in Round 1 of the experiment the information you are given is the same as in problem 1. Fill in the record keeping sheet below for round 1.

6. Assume that in Round 2 of the experiment the information you are given is the same as in problem #4. Fill in the record keeping sheet below for round 2.

7. Assume that in Round 3 of the experiment the information you are given is the same as in problem #4. Also assume that you are one of the students who gets sick in this period. Fill in the record keeping sheet below for round 3.

Round	Drive or Bus (Circle one)	Benefit	Cost	Points Earned	Total Game Points
1	<b>D</b> or B	8	4	4	4
2	D or <b>B</b>	3	1	2	6
3	D or <b>B</b>	3	1	0	6

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1	D or B				
2	D or B				
3	D or B				

