

**Checkout Questions****Lab 8. Friction: Why Are Some Lubricants Better Than Others at Reducing the Coefficient of Friction Between Metal Plates?**

1. Doubling the coefficient of friction between two surfaces will cut the frictional force in half.
  - a. I agree with this statement.
  - b. I disagree with this statement.

Explain your answer, using an example from your investigation about friction and lubricants.

2. Most pickup trucks have four tires, but some have six. How do you think having two additional tires affects the frictional force between a truck and the road?
  - a. Adding two tires increases the frictional force between the truck and the road.
  - b. Adding two tires decreases the frictional force between the truck and the road.
  - c. Adding two tires has no effect on the frictional force between the truck and the road.

Explain your answer.

# LAB 8

3. Societal needs and current events can influence the research that scientists and engineers decide to do.
  - a. I agree with this statement.
  - b. I disagree with this statement.

Explain your answer, using an example from your investigation about friction and lubricants.

4. All scientists follow the same scientific method when doing research.
  - a. I agree with this statement.
  - b. I disagree with this statement.

Explain your answer, using an example from your investigation about friction and lubricants.

*Why Are Some Lubricants Better Than Others at Reducing the Coefficient of Friction Between Metal Plates?*

5. Why is it useful to identify a system under study and then make a model of it during an investigation? In your answer, be sure to include examples from at least two different investigations.
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
6. Why is it important to think about the relationship between structure and function when trying to develop an explanation for a natural phenomenon? In your answer, be sure to include examples from at least two different investigations.