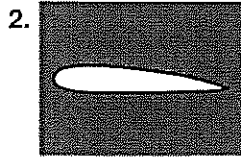


1. If an airplane engine cut out in midair, which force would decrease almost immediately?

- a. Gravity
- b. Thrust
- c. Weight
- d. Drag



What word describes the following shape?

- a. Airway
- b. Airfoil
- c. Aeron
- d. Airflow

3. What can you infer from the fact that airplane wings and birds' wings have similar shapes?

- a. That birds fly better than airplanes since they existed first
- b. That birds and airplanes take off in the exact same way
- c. That airplane wings were originally covered in feathers
- d. That aircraft engineers studied birds' wings when they designed plane wings

4. When a plane is in flight, what's the main difference between the air below and above its wings?

- a. The air above the wings has lower pressure
- b. The air below the wings has lower pressure
- c. The air above the wings has a higher temperature
- d. The air below the wings has a higher temperature

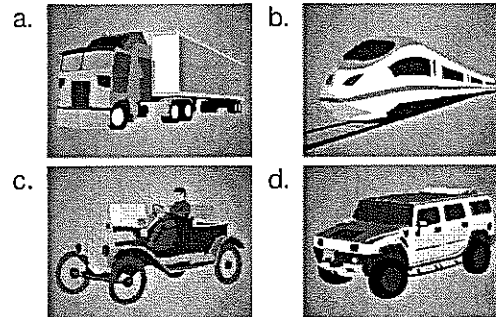
5. When might you feel the force of drag in everyday life?

- a. When you take an elevator upward
- b. When you stick your hand out the window of a moving car
- c. When you sit under a ceiling fan
- d. When you take an escalator downward

6. In the phrase, "Lift and thrust counteract the forces of weight and drag," what does "counteract" mean?

- a. Balance out
- b. Outweigh
- c. Act in harmony with
- d. Overpower

7. Streamlined objects experience less drag. Which of the following vehicles best fits the description "streamlined?"



8. Why don't jumbo jets have propellers?

- a. Because their wings are aerodynamically shaped
- b. Because only helicopters have propellers
- c. Because jet engines provide more thrust
- d. Because they are powered by jet fuel, not friction

9. What can you infer about the airplane parts called "elevators?"

- a. Manipulating them allows the plane to move up or down
- b. Manipulating them allows the plane to turn left or right
- c. Manipulating them allows the plane to go forward or backward
- d. Manipulating them changes the forces of weight and drag

10. To which feature of a car is the control column of an airplane most similar?

- a. The steering wheel
- b. The gas pedal
- c. The brake pedal
- d. The gearshift