

1. What is true about all forces?

- A. They are unbalanced
- B. They involve more than one object
- C. They cause objects to move
- D. They cancel each other out

2. What does the measurement unit N stand for?

- A. Net force
- B. Newton
- C. Neutrino
- D. Net weight

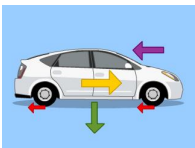
3. Which two components must a vector quantity have?

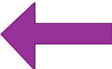



- A. Magnitude and velocity
- B. Acceleration and direction
- C. Force and speed
- D. Direction and magnitude

4. If the net force on an object is zero, what can you conclude?

- A. The object is not accelerating
- B. The object is not touching anything
- C. The object is not moving
- D. The object is slowing down

5. Which one of these arrows best corresponds to the force of drag?



- A. 
- B. 
- C. 
- D. 

6. What can you infer about an object moving at a constant velocity?

- A. No forces are acting on it
- B. Gravity is exerting the strongest force on it
- C. The forces acting on it are in balance
- D. It is stationary

7. Acceleration occurs when an object is subjected to a(n):

- A. Force
- B. Balanced force
- C. Unbalanced force
- D. Contact force

8. What is true of non-contact forces?

- A. They are always stronger than contact forces
- B. They always drive two objects farther apart
- C. They become weaker with distance
- D. They can not make two objects touch

9. If you drop an egg off of the Empire State Building, which of the following things will happen first?

- A. Drag will increase
- B. The egg will appear to hover
- C. Gravity and drag will fall into balance
- D. The net force will be zero

10. Which of the following statements is always true?

- A. An object at rest has no forces acting on it
- B. Unbalanced forces lead to a change in speed or direction
- C. Gravity always leads to an unbalanced force
- D. The net force on a moving object can never be zero