

Answers and Explanations - Conceptual Physics Questions

1. 1. C) It continues moving at constant velocity

Explanation: According to Newton's First Law, an object in motion remains in motion unless acted upon by an external force. Since no external force is acting, the spacecraft will keep moving at constant velocity.

2. 2. B) The force from the ground on the horse is unbalanced

Explanation: The horse moves forward because it pushes backward on the ground, and the ground pushes forward on the horse due to Newton's Third Law.

3. 3. C) It remains constant

Explanation: In free fall, the only force acting is gravity, which provides a constant acceleration of 9.8 m/s^2 downward.

4. 4. C) The applied force equals the friction force

Explanation: Since the box moves at constant velocity, there is no net force, meaning the applied force must balance the frictional force.

5. 5. A) Increases

Explanation: The acceleration down an incline is given by $g \cdot \sin(\theta)$. As the incline angle θ increases, $\sin(\theta)$ increases, leading to greater acceleration.

6. 6. C) Both exert equal forces on each other

Explanation: By Newton's Third Law, the car and truck exert equal and opposite forces on each other during a collision.

7. 7. C) It moves slightly backward

Explanation: By Newton's Third Law, when the person jumps forward, the boat experiences an equal and opposite reaction force moving it backward.

8. 8. B) Slow down

Explanation: A force opposite to motion causes negative acceleration (deceleration), reducing the object's speed.

Chapter 5 Conceptual Physics Answers

David D. Reid



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