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Conceptual Physics, 11e (Hewitt) Chapter 2 Newton's First Law of Motion: Inertia

- 2.1 Questions About Newton's First Law of Motion: Inertia
- 1) Whereas Aristotle relied on logic in explaining nature, Galileo relied on
- A) logic also.
- B) patterns.
- C) experiment.
- D) mathematics.

Answer: C Diff: 1

Topic: Early Science

- 2) The scientist to first introduce the concept of inertia was
- A) Aristotle.
- B) Galileo.
- C) Newton.
- D) Copernicus.

Answer: B

Diff: 1

Topic: Newton's 1st Law

- 3) Galileo's interpretation of motion differed from Aristotle's in that Galileo emphasized
- A) the acceleration of free fall.
- B) time rates.
- C) the role of distance in describing motion.
- D) all of these
- E) none of these

Answer: B Diff: 1

Topic: Early Science

- 4) A sheet of paper can be withdrawn from under a container of milk without toppling it if the paper is jerked quickly. This best demonstrates that
- A) the milk carton has no acceleration.
- B) there is an action-reaction pair of forces.
- C) gravity tends to hold the milk carton secure.
- D) the milk carton has inertia.
- E) none of these

Answer: D

Diff: 1

Topic: Newton's 1st Law

- 5) An object in mechanical equilibrium is an object
- A) at rest.
- B) moving with constant velocity.
- C) having no acceleration.
- D) all of these Answer: D Diff: 2

Topic: Equilibrium

- 6) When you stand at rest on a pair of bathroom scales, the readings on the scales will always
- A) each be half your weight.
- B) each equal your weight.
- C) add up to equal your weight.

Answer: C Diff: 2

Topic: Equilibrium

- 7) Hang from a pair of gym rings and the upward support forces of the rings will always
- A) each be half your weight.
- B) each equal your weight.
- C) add up to equal your weight.

Answer: C Diff: 2

Topic: Equilibrium

- 8) A man weighing 800 N stands at rest on two bathroom scales so that his weight is distributed evenly over both scales. The reading on each scale is
- A) 200 N.
- B) 400 N.
- C) 800 N.
- D) none of these

Answer: B Diff: 2

Topic: Equilibrium

- 9) The force of friction on a sliding object is 10 N. The applied force needed to maintain a constant velocity is
- A) more than 10 N.
- B) less than 10 N.
- C) 10 N.

Answer: C

Diff: 1

Topic: Friction

- 10) A 300-kg bear grasping a vertical tree slides down at constant velocity. The friction force between the tree and the bear is
- A) 30 N.
- B) 300 N.
- C) 3000 N.
- D) more than 3000 N.

Answer: C Diff: 3

Topic: Friction

- 11) A package falls off a truck that is moving at 30 m/s. Neglecting air resistance, the horizontal speed of the package just before it hits the ground is
- A) zero.
- B) less than 30 m/s but larger than zero.
- C) about 30 m/s.
- D) more than 30 m/s.
- E) More information is needed for an estimate.

Answer: C Diff: 2

Topic: Newton's 1st Law

- 12) A truck is moving at constant velocity. Inside the storage compartment, a rock is dropped from the midpoint of the ceiling and strikes the floor below. The rock hits the floor
- A) exactly below the midpoint of the ceiling.
- B) ahead of the midpoint of the ceiling.
- C) behind the midpoint of the ceiling.
- D) More information is needed to solve this problem.
- E) none of these

Answer: A Diff: 2

Topic: Newton's 1st Law

- 13) If your automobile runs out of fuel while you are driving, the engine stops but you do not come to an abrupt stop. The concept that most explains why is
- A) inertia.
- B) gravity.
- C) acceleration.
- D) resistance.

Answer: A

Diff: 2

Topic: Newton's 1st Law

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- 14) According to Newton's law of inertia, a railroad train in motion should continue going forever even if its engine is turned off. We never observe this because railroad trains
- A) move too slowly.
- B) are much too heavy.
- C) must go up and down hills.
- D) always have forces that oppose their motion.

Answer: D Diff: 2

Topic: Newton's 1st Law

- 15) Whirl a rock at the end of a string and it follows a circular path. If the string breaks, the tendency of the rock is to
- A) continue to follow a circular path.
- B) follow a straight-line path.
- C) increase its speed.
- D) revolve in a smaller circle.

Answer: B Diff: 1

Topic: Newton's 1st Law

- 16) When a rocket ship accelerating in outer space runs out of fuel, it
- A) accelerates for a short time, then slows down to a constant velocity.
- B) accelerates for a short time, slows down, and eventually stops.
- C) no longer accelerates.

Answer: C Diff: 1

Topic: Newton's 1st Law

- 17) If no external forces are acting on a moving object, it will
- A) continue moving at the same speed.
- B) continue moving at the same velocity.
- C) move slower and slower until it finally stops.

Answer: B Diff: 1

Topic: Newton's 1st Law

- 18) Galileo's use of inclined planes allowed him to effectively
- A) slow down the acceleration of free fall.
- B) increase the acceleration beyond that of free fall.
- C) eliminate the acceleration of free fall.
- D) eliminate friction.

Answer: A Diff: 1

Topic: Linear Motion