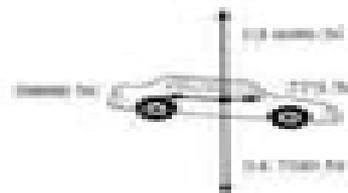


Assessment

Forces and the Laws of Motion**Chapter Test A****MULTIPLE CHOICE**

In the space provided, write the letter of the term or phrase that best completes each statement or best answers each question.

- _____ 1. Which of the following is the cause of an acceleration?
 a. speed
 b. inertia
 c. force
 d. velocity
- _____ 2. What causes a moving object to change direction?
 a. acceleration
 b. velocity
 c. inertia
 d. force
- _____ 3. Which of the following forces exists between objects even in the absence of direct physical contact?
 a. frictional force
 b. fundamental force
 c. contact force
 d. field force
- _____ 4. A newton is equivalent to which of the following quantities?
 a. kg
 b. $\text{kg}\cdot\text{m/s}$
 c. $\text{kg}\cdot\text{m/s}^2$
 d. $\text{kg}\cdot(\text{m/s})^2$
- _____ 5. The length of a force vector represents the
 a. cause of the force.
 b. direction of the force.
 c. magnitude of the force.
 d. type of force.
- _____ 6. A free-body diagram represents all of the following except
 a. the object.
 b. forces as vectors.
 c. forces exerted by the object.
 d. forces exerted on the object.
- _____ 7. In the free-body diagram shown to the right, which of the following is the gravitational force acting on the car?
 a. 5000 N
 b. 775 N
 c. 14 700 N
 d. 13 690 N



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