

MP4

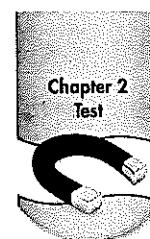
**Fill in** the bubble next to the answer choice you think is correct for each multiple-choice question.

5PS2.B, 5-PS2-1, 5-ESS1-1, 5-ESS1-2

1. Besides a strength, or magnitude, what does every force have?
  - (A) gravity
  - (B) direction
  - (C) friction
  - (D) magnetism
2. A ball is rolled across four different surfaces with the same force. Which surface will slow the movement of the ball the most?
  - (A) tile floor
  - (B) paved road
  - (C) grassy field
  - (D) cement sidewalk
3. How do electric and magnetic forces act on different objects?
  - (A) They only pull objects.
  - (B) They only push objects.
  - (C) They either push or pull objects.
  - (D) They only push or pull objects when they touch each other.
4. What happens when an object accelerates?
  - (A) Its speed or direction changes.
  - (B) Only its speed changes.
  - (C) Only its direction changes.
  - (D) Its speed and direction do not change.
5. When you ride a roller coaster, what makes your body rise out of its seat at the top of a hill?
  - (A) inertia
  - (B) gravity
  - (C) friction
  - (D) electricity
6. How can you complete this sentence so it is always true?

The greater the net force acting on an object,

  - (A) the lesser the mass of the object.
  - (B) the greater the mass of the object.
  - (C) the lesser the acceleration of the object.
  - (D) the greater the acceleration of the object.



**7.** What always happens when the forces acting on an object are equal in strength and opposite in direction?

- ☐ (A) The object moves.
- ☐ (B) The motion of the object does not change.
- ☐ (C) The object does not move.
- ☐ (D) The object becomes heavier.

**8.** When the sun is low in the sky early in the morning, trees form

- ☐ (A) no shadows.
- ☐ (B) short shadows.
- ☐ (C) long shadows.
- ☐ (D) all sizes of shadows.

**9.** You are building a wooden car to enter in a downhill race. What can you do to make the car go as fast as possible?

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**10.** Describe a contact force and a non-contact force that affect the motion of a baseball after a pitcher has thrown the ball.

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