

1. Maria pushes a ball, and the ball rolls across the table. She wants to make the ball roll faster.

Maria needs to push the ball

- A. with more strength.
  - B. with less strength.
  - C. on the other side of the table.
  - D. on a different table.
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2. Jim and Jed are playing with a go-cart they built out of wooden crates.

Jed is riding across a flat surface, and Jim is behind the cart.



What is Jim doing to move the cart?

- A. pushing the cart
  - B. nothing
  - C. pulling the cart
  - D. looking at the cart
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3. An object that is pulled with the least amount of force will

- A. move the furthest.
  - B. move the slowest.
  - C. not move at all.
  - D. move the fastest.
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4. A ball is thrown in the air. The ball goes up, then changes direction and falls down. Why does the ball fall down?

- A. Gravity pulls it down.
  - B. Gravity pushes the Earth up.
  - C. Gravity makes the ball lighter.
  - D. Gravity stops working.
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5. Which of the following can best represent a change in **position**?

- A. Alyssa has a 42 inch TV.
  - B. Andrew is 4 feet tall.
  - C. Kevin walks 7 meters.
  - D. Katie's thumb is 3 centimeters long.
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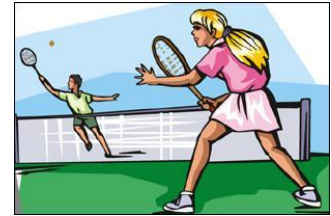
9. Brandon and Callie are playing tennis. Brandon serves the tennis ball over the net to Callie. When Callie hits the ball with her racquet, what will most likely happen to the motion of the ball?

A. It will change direction.

B. It will continue in the same direction it was moving before she hit it.

C. It will stop.

D. There is not information given to answer the question.



10. Oliver and his older brother like to play pool together. When Oliver takes a shot, the cue ball will barely go far enough to hit another ball on the other end of the table. But when Oliver's brother takes a shot, the cue ball hits another ball and makes it cross the table. Why is this?

- A. Oliver's brother is taller.
- B. Oliver's brother can shoot with greater force.
- C. Oliver can shoot with greater force.
- D. There is no reason.



11. Look at the picture. The bird is \_\_\_\_\_ the cage.

- A. underneath
- B. inside of

- C. above
- D. below



12. What kind of force between the bat and the ball helps a baseball player hit a home run?

- A. both a pulling force and a pushing force
- B. There are no forces involved in baseball.
- C. a pushing force
- D. a pulling force

13. Direction is the path along which something is moving. Which of these words can be used to describe the direction of an object relative to another object?

- A. east
- B. right
- C. down
- D. all of these

