

Friction Bell work – Student Edition

MULTIPLE CHOICE. Select the best answer.

1. What is Newton's third law of motion?
 - a) For every action, there is an equal and opposite reaction.
 - b) Force is equal to the mass multiplied by acceleration.
 - c) Unbalanced forces can change an object's speed or direction.
 - d) Balanced forces cause an object to remain at rest or continue at a constant speed.

2. If a man is pushing against a brick wall with a force of 120 N. How much reaction force does the wall provide?
 - a) None
 - b) 60 N
 - c) 120 N
 - d) 240 N

3. Which of the following statements is true of action-reaction forces?
 - a) They act in opposite directions.
 - b) They act on different objects.
 - c) They do not cancel each other out.
 - d) All of these are true.

4. Which of the following is not an example of an action-reaction force?
 - a) When pulling on a rope, the rope pulls against your hand.
 - b) Two teams pulling a rope in opposite directions a tug of war.
 - c) When you head the soccer ball, the ball applies a force to your head.
 - d) When stepping down onto the lawn, the ground pushes back against your foot.