

Physics Worksheet: Newton's 3rd Law

Multiple Choice

Choose the best answer to each question. Write the letter for that answer to the left of the question number.

1. Whenever an object exerts a force on another object, the second object exerts a force of the same magnitude, but in the opposite direction to that of the first object.
 - a) Always true
 - b) Sometimes true
 - c) Always false

2. A high school student hits a nail with a hammer. During the collision, there is a force
 - a) on the hammer but not on the nail.
 - b) on the nail but not on the hammer.
 - c) on the nail and also on the hammer.

3. A woman weighing 500 N sits on the floor. She exerts a force on the floor of
 - a) 1000 N.
 - b) 500 N.
 - c) 250 N.
 - d) 50 N.
 - e) 5 N.

4. As a 500 N woman sits on the floor, the floor exerts a force on her of
 - a) 1000 N.
 - b) 500 N.
 - c) 250 N.
 - d) 50 N.
 - e) 5 N.

5. Forces always occur
 - a) by themselves.
 - b) as single quantities.
 - c) in pairs.
 - d) in triplets.