

Work

Work is the product of force and distance. Work is done when a force acts on an object in the direction the object moves. If a force acts on an object but the object does not move, no work is done.

1. A man pushes a grocery cart at constant speed from one end of an aisle to the other. Identify the force, the distance, and the work.
2. Describe two examples of work you do on a typical day.

ANSWERS

1. The man supplies the force by pushing on the cart. The length of the aisle is the distance. The work done is the product of the force and the distance.

2. Answers will vary. Sample answers: lifting a heavy school bag; pushing or pulling a door open. Make sure students correctly identify the force, distance, and work done.