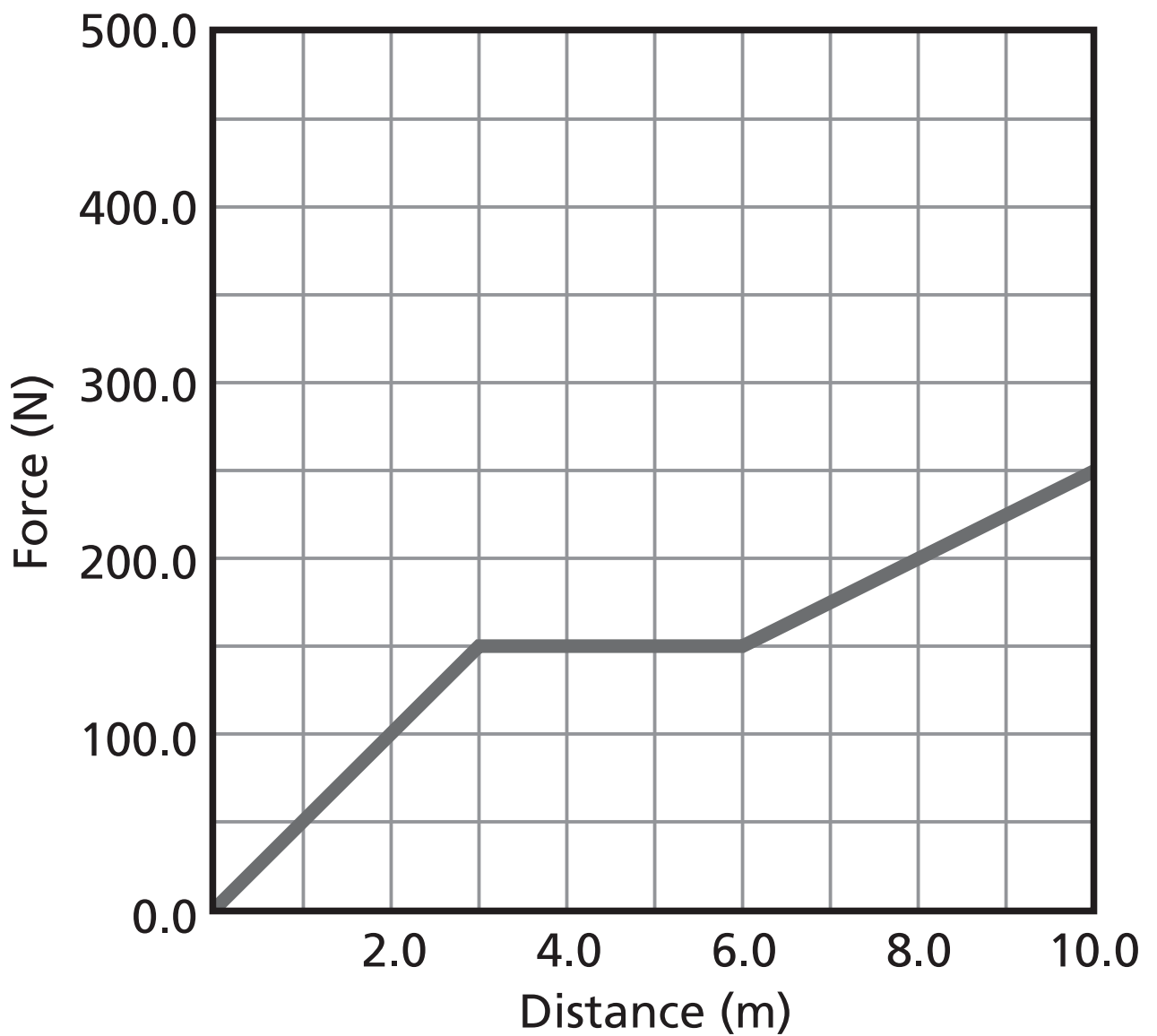


Force, Distance, and Work

Force, Distance, and Work



10 Transparency 10-1 Worksheet

Force, Distance, and Work

1. What force acts on the object when it has been moved 4.0 m?

2. How far has the object been moved when the force on it is 200.0 N?

3. Explain the shape of the line on the graph.

4. Which formula is used to calculate work when a constant force is exerted on an object?

5. How much work is done in moving the object 6.0 m from the source to 8.0 m from the source?
6. Look at the information on the graph about the object as it is moved 6.0 m from its source to 10.0 m from its source.
 - a. How much work is done in moving the object?
 - b. How did you know what force to use?

 - c. What did you have to assume about the force that acts over this distance?

7. How much work is done in moving the object the 10.0-m distance shown on the graph?