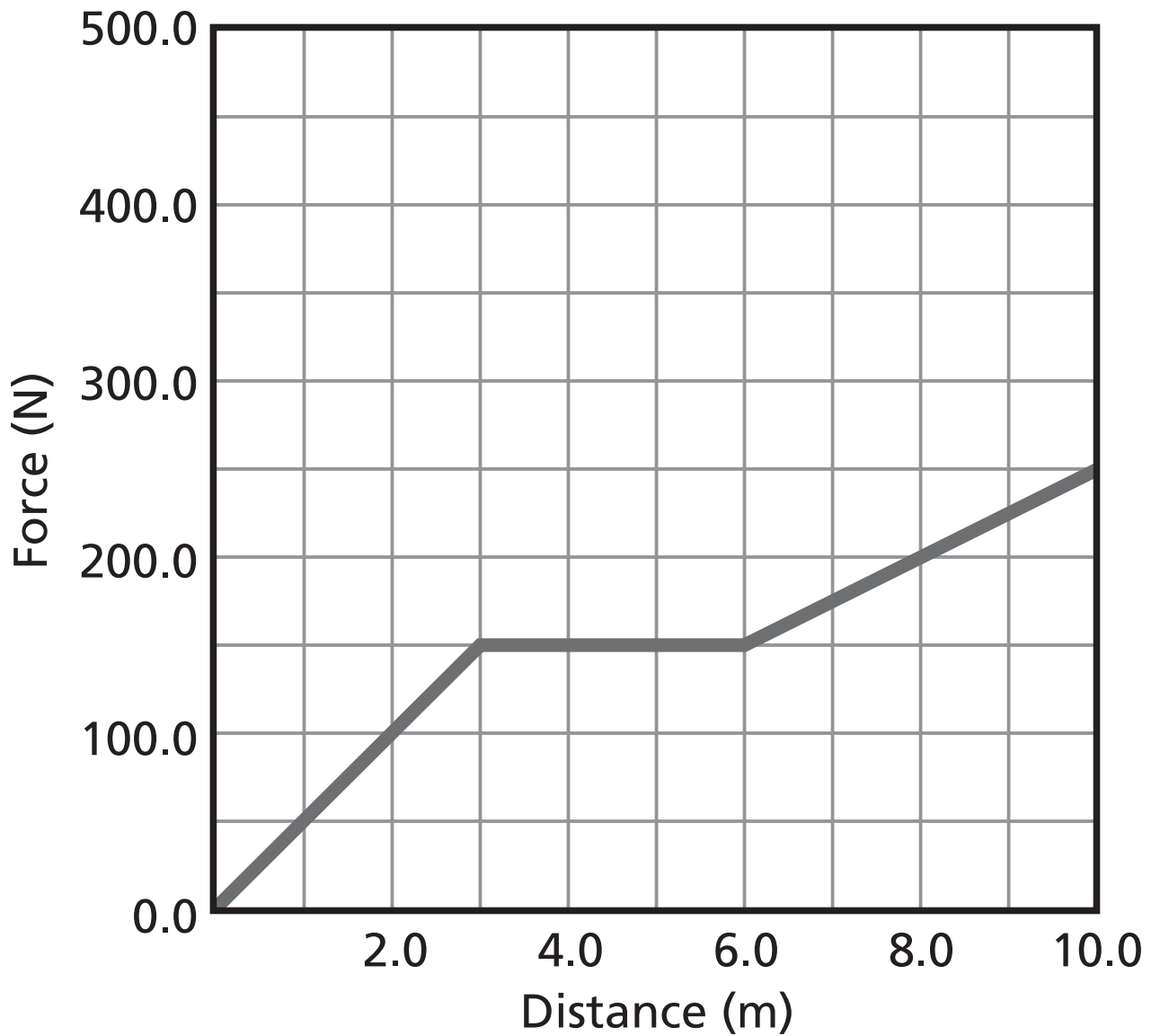


## Force, Distance, and Work

## 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?  
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2. How far has the object been moved when the force on it is 200.0 N?  
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3. Explain the shape of the line on the graph.  
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\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
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?