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## 9 Transparency 9-1 Worksheet

## **Velocity and Momentum**

**1.** What is the object's velocity if the momentum is 6.0 kg  $\cdot$  m/s?

**2.** What is its momentum if the velocity is 2.0 m/s?

**3.** Use the graph to predict what the momentum would be if the velocity is 15.0 m/s.

- **4.** Describe two ways you could calculate the mass of the object.
- **5.** What is the mass of the object? Show your work.

- 6. How would the line on the graph change if the object had a greater mass?
- **7.** A similar graph is drawn for an object that has a mass of 1.0 kg. Would the line for this graph be above or below the line currently on the graph?