## Transparency 9-1

Velocity and Momentum

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## $9 \longrightarrow$ Transparency 9-1 Worksheet

## Velocity and Momentum

1. What is the object's velocity if the momentum is $6.0 \mathrm{~kg} \cdot \mathrm{~m} / \mathrm{s}$ ?
2. What is its momentum if the velocity is $2.0 \mathrm{~m} / \mathrm{s}$ ?
3. Use the graph to predict what the momentum would be if the velocity is $15.0 \mathrm{~m} / \mathrm{s}$.
4. Describe two ways you could calculate the mass of the object.
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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?
