1. What is relative motion?
2. What is the difference between distance and displacement?
3. How is average speed calculated?
4. On a distance-time graph, what does the slope represent?
5. What is velocity?
6. How is acceleration related to velocity?
7. A backpack falls out of an open window. The backpack starts from rest and hits the ground 1.0 second later with a velocity of $9.8 \mathrm{~m} / \mathrm{s}$. What is the average acceleration of the backpack?
a. $9.8 \mathrm{~m} / \mathrm{s}$
b. 9.8 m
c. $9.8 \mathrm{~m} / \mathrm{s}^{2}$
d. all of the above
8. How are mass and weight different?
