FAN CART GIZMO: 2[™] LAW ASSESSMENTS



2. The acceleration of the cart shown below (.4 m/s/s) is represented in the given graph. If a second block is added to the cart, what might be the resulting acceleration?



3. A cart is set up as shown below, with three fans directed to the left and two of the fans running. The motion of the cart is represented by the v vs t graph shown. If the experiment were repeated with all three fans running, what might the resulting v vs t graph look like?



4. Which of the following cart configurations could produce the x vs t graph shown?



5. A cart with one fan on it blowing to the left and carrying one block produces the *x* vs *t* graph shown. If this cart were carrying three blocks instead of one, with the fan still blowing the same direction, what could the *x* vs *t* graph look like?

