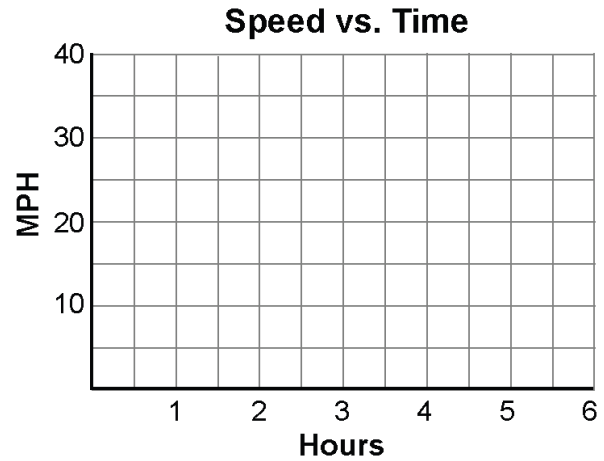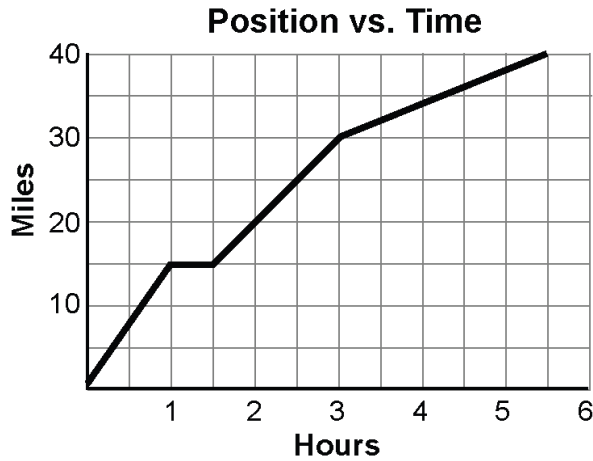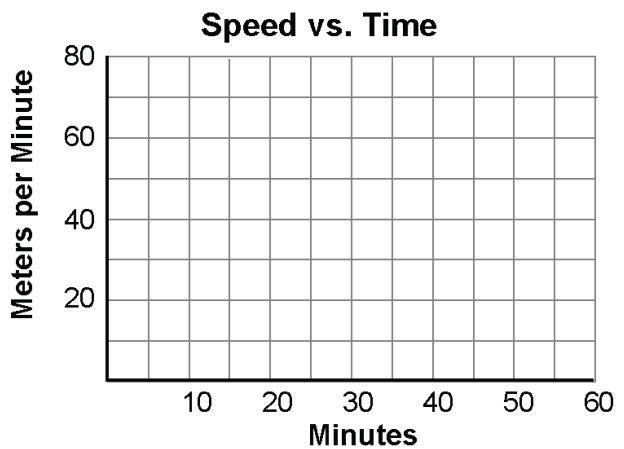# Analyzing Graphs of Motion With Numbers
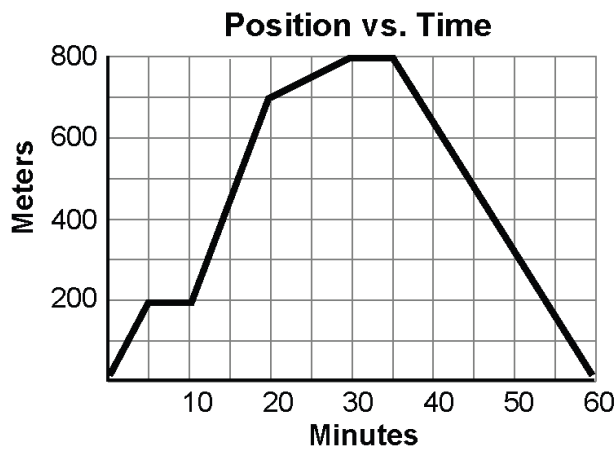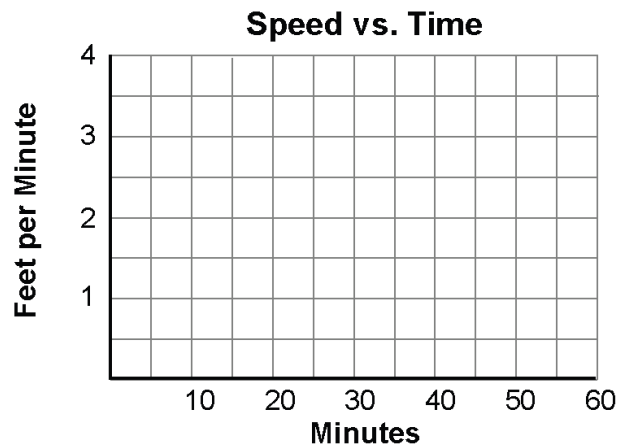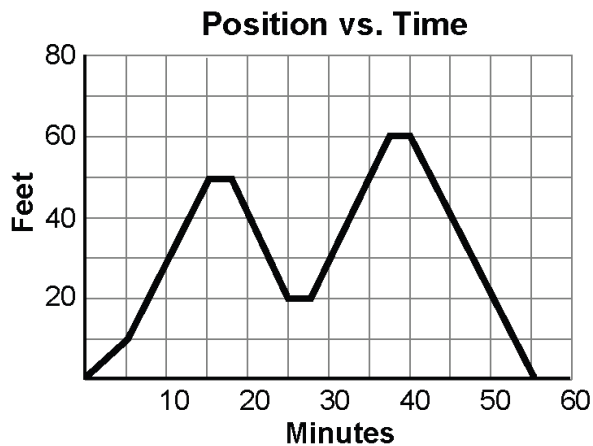
1. For each position-time graph, calculate and plot speed on the speed-time graph to the right.
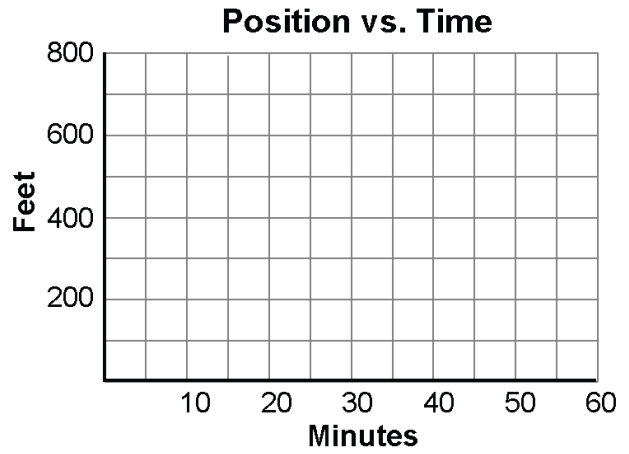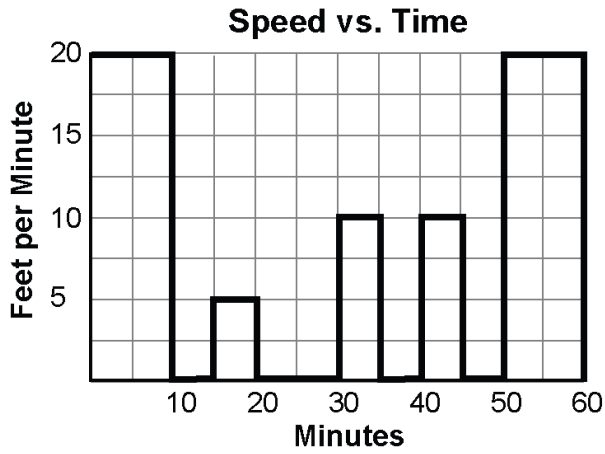a. The bicycle trip through hilly country.

Position vs. Time

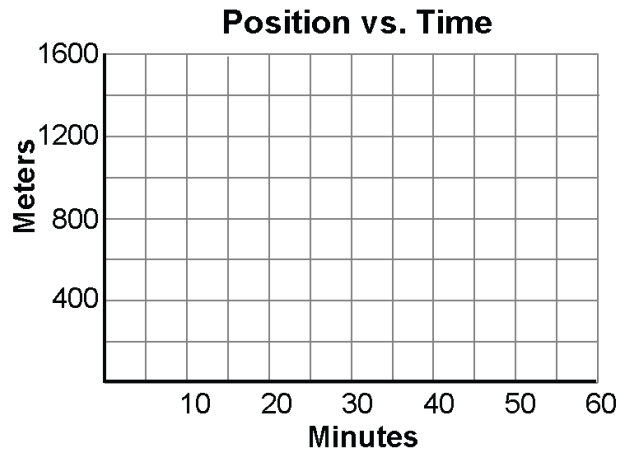**Speed vs. Time**

b. A walk in the park

Position vs. Time

Speed vs. Time

c. Strolling up and down the supermarket aisles

Position vs. Time

Speed vs. Time

2. For each speed-time graph, calculate and plot the distance on the position-time graph to the right. For this practice, assume that movement is always away from the starting position.

a. The honey bee among the flowers

Speed vs. Time

Feet per Minute

Minutes

Position vs. Time

Feet

Minutes

b. Rover runs the street

Speed vs. Time

Meters per Minute

Minutes

Position vs. Time

Meters

Minutes

c. The amoeba

Speed vs. Time

Millimeters per Hour

Hours

Position vs. Time

Millimeters

Hours