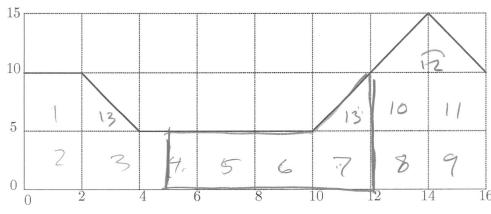
Name:

You must show your work to get full credit.

The graph shows the velocity of a turtle in feet/minute as a function of time in minutes.

Velefity in ft/min



Time in minutes

Recall that the area under the graph between to time values gives the change in distance.

1. Each box in the graph represents how much distance?

The graph represents now intendistance: $10 + \frac{1}{2 \min}$ $(2 \min) (5 + \frac{1}{2 \min}) = 10 + \frac{1}{2 \min}$

2. How far did the turtle cover in the full 16 minutes?

Distance covered is 130 f.4

13 hoxes = 13(10) = 130 ft

3. How far did the turtle cover between t = 5 and t = 12 minutes?

Distance covered is $\frac{40 \, \text{P}}{40 \, \text{P}}$