Name _____ Hour _____

1-Dimensional Motion PRACTICE QUIZ

Please attempt each problem to the best of your ability and **show your work**. Then grade your answers using the keys provided. Make sure you include a **UNIT on your answer**…it is worth ½ a point each time!

1. A student drops a ball from a window 3.5 m above the sidewalk. How fast is it moving when it hits the ground?

2. A tennis ball is thrown straight up with an initial speed of 22.5 m/s.
    a. How long (Δt) does the ball take to reach the top of it flight?

    b. How high does the ball rise?

3. A skater accelerates from rest to a speed of 5.1 m/s in 4.5 sec. What is the **total distance** traveled by the skater in **MILES**?

4. Use the **velocity vs. time graph** to find the area under the graph. You can use shapes or 1-D motion equations.
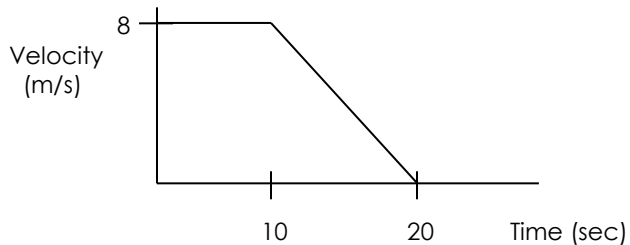
Total area = _____

What is the unit of the area? _____