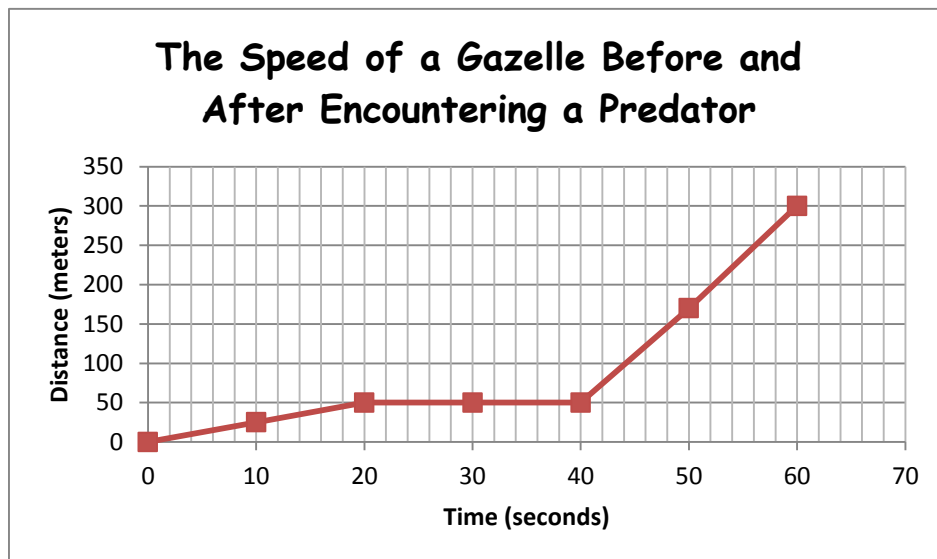Name: _____   Section: _____

More Speed Practice Problems

<u>Directions</u>: Use the skills you have acquired from class to solve the problems below. Please show all work on a separate sheet of paper!

1. Calculate the speed of a meteor that travels 5.1 miles in 0.000167 hour towards the Earth.

2. While searching for nectar, a hummingbird travels 5 meters from one flower to another in 0.33 seconds. How fast does the hummingbird travel?

3. How long would it take you to walk 2.4 km at a speed of 1.5 m/s?

4. At a rate of 2 feet per second, how many yards could a projectile travel in one minute?

5. Use the graph below to determine the following:
    a. speed during the 0-20 second interval
    b. speed during the 20-40 second interval
    c. speed during the 40-60 second interval
    d. average speed over the 60 seconds.

The Speed of a Gazelle Before and After Encountering a Predator

6. Assuming your average walking speed is 1.4 m/s, what time should you leave your house to arrive at school (0.84 km away) at 7:15?

7. It is 12:00 and you just heard that local officials are tracking a violent storm heading westward, directly for your town and school. The storm is traveling at 25 km/hr and it is currently 75 kilometers east of your school. If the school day is not shortened, and you remain until two o'clock (the official end of the day), will you and all others in the school get home before the storm hits?

8. If you are riding your skateboard from a friend's house to your house (3.2 kilometers), how many minutes will you save if you go 16 mi/hr instead of 8 mi/hr?

9. A bird flies at a speed of 15 m/s for 10 seconds, 1,200 m/min for 0.17 minute, and 2,500 cm/s for 5,000 milliseconds. What is the bird's average speed?

10. You and your friends decide to travel, on foot, to your favorite beach at the Jersey Shore. Your speed for the first part of the trip is 2.2 mi/hr. Twenty-three minutes after starting your trip, the group decides to stop at a convenience store for a drink. After stopping at the convenience store for five minutes, you continue your travels for 0.9 hour and then stop at a local fast-food restaurant for a bite to eat. You spend 20 minutes eating your favorite burger and 480 seconds after continuing your journey, you stop to use the restroom for 0.5 hr. Now that everyone feels a little lighter, the group increases its speed to 5.5 km/hr and spends the next 900,000 milliseconds traveling to a friend's beach house to get sun block. After spending five minutes getting the sun block and raiding your friend's pantry for snacks, the group starts "fist-pumping" in anticipation of their arrival at the beach. Eleven minutes and twenty-five seconds later, you and your friends finally feel the warm sand beneath your feet. Approximately how many miles away is the beach?