

# Notebook Plan

## Speed Calculations

Today's Date

Focus Question:

How can you solve for the missing quantity in an equation?

Evidence:

1. Must use the SDT Triangle:  $\text{Speed} = \frac{\text{Distance}}{\text{Time}}$

2. "3 Steps to Solve"

Step 1: Identify what you are solving for (speed, distance, or time)

**\*Speed Word Problem Hints\***

Step 2: Select the correct equation

Step 3: Plug in the known information and solve

3. Practice Problems (Notebook page 149)

- a. *How far can a cheetah run if it runs at a speed for 20 m/s for 15 seconds?*
- b. *A car travels for 6 hours at an average speed of 70 km/hr. How far did the car travel?*
- c. *What distance does a snail move if the snail moves for 2 hours at 50 m/hr?*
- d. *How much time does it take for a horse to run 1.5 miles at an average speed of 15 mi/hr?*
- e. *How long does it take a marathon runner to complete a 26-mile race at an average speed of 12 mi/hr?*

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## Independent Practice (Notebook Page 148)

Directions: Answer the questions in your notebook. Show all of your work and remember to label the units!

1. Calculate the distance that you would travel if you drove for 8 hours at 60 miles per hour?
2. How long does it take to travel 120 miles at 40 miles per hour?
3. A car travels 300 meters in 5 hours. Calculate the average speed of the car.
4. An athlete can run long distances at 4 m/s. How far can she run in 50 seconds?
5. Andrew rows at an average speed of 2 m/s. How long does it take him to row 800m?
6. Calculate the distance that you would travel if you drove for 30 minutes at 33 m/min.
7. How long does it take to travel 385 miles at 70 miles per hour?
8. If a car is traveling at 62 meters per second, how long would it take the car to travel 13,786 meters?
9. What is the average speed of Sally's drive if she drove for 2.5 hours at 50 m/hr and then drove 80 meters at 20 m/hr?
10. A snail moves 5 m in 2 hours. If the snail moves at the same speed, how long would it take him to move 20 m?

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