

Name: Mr. Hedges
 Block: 1-3; 4-5; 8-9

Date: Monday
 Due Date: Friday

Problem of the Week Demo: Awesome Vacation

Please respond fully to the following question, showing or explaining how you got your answer. Your response will be graded using the NJ State 3-point scoring rubric and will count as one quiz grade. You have the entire week to complete it, please see me if you need help.

Mr. Hedges gets on a plane to go to San Diego, which is 2,500 miles away. He arrives in San Diego International Airport after flying for 6 hours. After touring the San Diego Zoo, catching a Padres game, and enjoying Balboa Park, he wins a flight to Dallas on a supersonic jet. The jet travels at 800 miles per hour and it only takes him 90 minutes to arrive in Dallas.

Part A: What was the total distance that Mr. Hedges traveled to get to Dallas?

Destination	Time	Distance	Speed
San Diego	6hr	2,500 mi	416.6 mph
Dallas	1.5 hr	1,200 mi	800 mph

$$\frac{\text{miles}}{\text{hours}} = \frac{2,500 \text{ mi}}{6 \text{ hr}} = \frac{x \text{ mi}}{1 \text{ hr}} = 3,700$$

$$6x = 2,500$$

$$\div 6 \quad \div 6$$

$$x = 416.\bar{6} \text{ mph}$$

$$D = 800 \cdot 1.5 = 1,200$$

Part B: What was the average speed that Mr. Hedges traveled at during his entire trip?

$$6 = 3,700 \text{ mi} = R \cdot 6 \text{ hr} = 6$$

$$616.\bar{7} = R$$

$$616.\bar{7}$$