

Practice Problems

Answer each of the following questions. Show your work and write your statements clearly.

1. Shawn took 9 hours to travel 880 km. For the first 180 km, he took 2 hours. What was his average speed for the rest of the journey?
2. Lisa drove at a uniform speed of 76 km/h for 30 minutes and then at a uniform speed of 80 km/h for 45 minutes. Find her average speed for the whole journey.
3. Bobby took 6 hours to drive from town A to town B. He drove at an average speed of 65 km/h for the first 3 hours and then at an average speed of 72 km/h for the rest of the journey. Find the distance between towns A and B.

4. A man set off from city X to city Y at 2:20 p.m. For the first 125 miles, he travelled at an average speed of 50 mi/h. For the remaining 140 miles, he travelled at an average speed of 70 mi/h. At what time did he reach his destination?
5. Peter drove at an average speed of 120 km/h for $3\frac{1}{2}$ hours. If he had increased his speed by 20 km/h, how much time would he have saved?
6. Ricky took 5 hours to travel from town P to town Q at an average speed of 60 mi/h. Sam took 1 hour more than Ricky to complete the same journey. Find Sam's average speed for the whole journey.