



Speed-distance-time Word problems

1. A plane set off to NYC at a speed of 229 mph. On the return flight of 14 hours, the plane cruised at 245 mph. How many hours long was the flight to NYC?
2. Nancy left downtown NYC, and three hours later, Jason left going seventy - five mph faster to catch up. After another two hours, Jason caught up. Find Nancy's average speed.
3. Joan left the city traveling at 44 mph, while, at the same time, Mike left the city going the opposite direction at a speed of 89 mph. Find the time Joan traveled before the two were 132 miles apart.
4. A train left for London, and four hours later, a car traveling eighty - one mph tried catching up to the train. After nine hours, the car caught up. What was the train's average speed?
5. Mike left the city for vacation. Jessica left 4 hours later going 79 mph faster to catch up. After 3 hours Jessica caught up. What was Mike's average speed?



6. Fred left Miami traveling eighty - three mph. Sandy, to catch up, left some time later driving at ninety - two mph. Sandy caught up after three hours. How long was Fred driving before Sandy caught up?

7. Melanie left Burbank with a speed of 45 mph. Benny also left at the same time in the opposite direction at a speed of 81 mph. Find how many hours Benny must travel before they are 331 miles apart.

8. A truck and van left from NYC in opposite directions. The truck traveled for six hours at seventy - one mph. The vehicles were seven hundred six miles apart. Find the van's average speed.

9. A cargo plane flew from the US across the Atlantic at 273 mph, and flew back to the US at 293 mph. Given that the first trip took two hours longer, how long was the return trip?

10. Tom traveled to Miami by car. Going there took four hours, and the return trip lasted six hours. Tom averaged a speed of forty - eight mph while returning. Find the average speed of the trip there.



Answers

- 1) 14.9hrs
- 2) $28\frac{2}{3}$ mph
- 3) 59.5 minutes
- 4) 56.07mph
- 5) 59.25 mph
- 6) 3h 19 min
- 7) 2h 37 min
- 8) 280 mph
- 9) 27 h
- 10) 72 mph