Standard 1 (Number Sense)

Sandy's New Car

Sandy bought a new car. Since then, she has taken her car to Tyler's Garage to have the oil changed every 5,000 miles. She also gets her tires rotated every 10,000 miles.

A) Sandy's car now has 115,000 miles on the odometer. How many times has the oil been changed? Show your work.

B) Has Sandy's car ever needed the oil changed and the tires rotated at the same time? If so, how many times?

C) It is a 5-mile round trip from Sandy's house to Tyler's Garage. Assuming Sandy drives from home to Tyler's Garage using the same route for service, how many miles has Sandy driven back and forth to Tyler's Garage for these service jobs? Show your work to explain your answer.

Larry's New Car

Larry bought a new car. Since then, he has taken his car to Tyler's Garage to have the oil changed every 3,000 miles. He also gets his tires rotated every 9,000 miles.

A) Larry's car now has 135,000 miles on the odometer. How many times has the oil been changed? Show your work.

B) Has Larry's car ever needed the oil changed and the tires rotated at the same time? If so, how many times?

C) It is a 10-mile round trip from Larry's house to Tyler's Garage. Assuming Larry drives from home to Tyler's Garage using the same route for service, how many miles has Larry driven back and forth to Tyler's Garage for these service jobs? Show your work to explain your answer