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Solve the following word problems which involve systems of linear equations.

Mr. Moneybags has $8.00 in change consisting of dimes and quarters. The total amount of coins he has is 51. How many dimes and how many quarters does he have?

The high school is having a car wash fundraiser to sponsor its cheerleading team. They charge $10 to wash a car, and $15 to wash a truck. They raise $500 by washing 44 vehicles. How many cars and how many trucks do they wash?

Renatos Pizza charges $8 for an Italian Hoagie, and $12 for a large cheese pizza. The Petersons order 18 items for their daughter’s birthday party totaling $176. How many large cheese pizzas and Italian Hoagies do they order?

Two trains run the same route. The first train has a 30 mile headstart and travels at 80 mph. The second train runs at 90 mph. How long will it take for the second train to pass the first?