Section 6.4: **Word Problems with Variables on Both Sides**

1. The length of a rectangular garden is 1 m more than three times the garden’s width. If the perimeter of the garden is 34 m, find its dimensions.
2. The cash register in the school canteen contains *x* quarters and (30 – *x*) dimes. If the total value of the coins is $5.85, how many of each kind of coins are there?
3. An employee mixes peanuts worth $2.80/kg with cashews worth $3.60/kg. She sells the mixture for $3.12/kg. If she has 75 kg of peanuts, how many kilograms of cashews does she need?

**d)** Plane A leaves the airport. One hour later, Plane B leaves the same airport on the same course. It catches up to Plane A in  h. The average speed of Plane B is 300 km/h faster than Plane A. Find the speed of each plane.