## NAME

Module 4 Solving Problems Using Linear Equations of One Variable<br>Lesson 4 Solving Mixture and Rate Problems Using Equations of One Variable



## Set 1

1. The Corner Coffee Shop sells extra large lattes for $\$ 3.50$ each and large lattes for $\$ 2.00$ each. Yesterday the shop sold 35 more large lattes than extra large lattes for a total of $\$ 180.00$. How many of each size drink did the coffee shop sell?

The shop sold 20 extra large lattes and 55 large lattes.
3. Fruitlicious Punch contains $15 \%$ apple juice. How much pure apple juice should be added to 3 gallons of Fruitlicious Punch to make a drink that contains $25 \%$ apple juice?

The amount of pure apple juice to be added is 0.4 of a gallon.

## Set 2

1. Two birds fly in opposite directions. One bird flies at $40 \mathrm{~km} / \mathrm{hr}$ while the other flies $55 \mathrm{~km} / \mathrm{hr}$. After how many hours will the two birds be 142.5 kilometers apart?

The birds will be 142.5 km apart in 1.5
hours.
3. Jacob left a rest area at noon and traveled north along Interstate 5 at a constant rate of 50 mph . Silma left the same rest area half an hour later, and drove north on Interstate 5 at a constant rate of

Silma caught up to Jacob at 3 P.M.

