**7.4 Problem Solving with Two Variables**

**Steps:**

Louise purchased a flag whose length was 90 cm longer than its width. The perimeter of the flag was 540 cm. What are the dimensions of the flag?

On a visit to the museum, one adult and three children pay $27.75, while two adults and two children pay $27.50. What is the cost of each type of ticket?

Milk that has 3.25% milk fat (MF) is mixed with milk that has 1% MF. What volume of each is needed to obtain 60 mL of milk that has 3% MF?

A boat travels 110 km in two hours when it is moving with the current but only 90 km in two hours when it travels against the current. Find the speed of the boat in still water.