## Writing and Solving One-Variable Equations

## Solve each problem by writing and solving a one-variable equation.

(1) In the first three innings of a baseball game, the home team scored some runs. In the rest of the game, they scored 5 runs more than the number of runs scored in the first three innings. If the home team scored 9 runs in all, how many runs did they score during the first three innings? How many runs did they score in the remainder of the game? Let $x=$ the runs scored in the first three innings.
(2) The punch bowl at Felicia's party is getting low, so she adds 12 cups of punch to the bowl. Two guests serve themselves 1.25 cups and 2 cups of punch. The punch bowl now contains 11.5 cups of punch. How many cups were in the punch bowl before Felicia refilled it? Let $n=$ number of cups in bowl before Felicia refilled it.

3 Vanessa is a caterer. She made several batches of appetizers last weekend for an event. This weekend, Vanessa made 4 times as many batches. She made a total of 25 batches of appetizers for the two weekends. Determine the number of batches Vanessa made last weekend and the number of batches she made this weekend. Let $b=$ the number of batches of appetizers Vanessa made last weekend.

## Writing and Solving One-Variable Equations continued

4. Wanda earned $\$ 350$ babysitting over the months of July and August. She earned $\$ 90$ more in August than in July. How much did she earn babysitting in July? In August?
(5) Charlene is 8 years older than Aaron. The sum of their ages is 44 . What are their ages?

6 On Saturday, $45 \%$ of the music Brianna listened to was country songs. She listened to 27 country songs on Saturday. How many songs did Brianna listen to on Saturday?

