

## Modeling Multi-Step Problems

Name: \_\_\_\_\_

**Write an equation to represent each problem. Show your work.**

- 1** The Lopez family goes to the movies. They buy 2 adult tickets for \$6 each and 3 child tickets for \$4 each. Write an equation to represent how much money the family spends on movie tickets,  $t$ .
- 2** Grace earns \$5 each time she walks her neighbor's dog. She walks the dog 5 times in one week. Then she spends \$7 on a book and \$9 on a building set. Write an equation to represent how much money Grace has left,  $m$ .
- 3** During the basketball game, Mika makes 3 baskets worth 2 points each, 2 baskets worth 3 points each, and 2 free throws worth 1 point each. Write an equation to represent how many points Mika scores,  $p$ .
- 4** Will has 20 pounds of apples. He makes 2 batches of applesauce that use 4 pounds each, one batch of apple butter that uses 6 pounds, and he uses 3 pounds to make juice. Write an equation to represent how many pounds of apples Will has left,  $p$ .
- 5** What strategies did you use to write an equation?
- 6** Is there another way you could write one of your equations? Could you write it as two equations? Explain.