





PRACTICE V Use Algebra Write an equation to solve each problem. Use a variable for the unknown.

1. Trent's mom gave him \$30. He earned another \$12 completing chores. Trent spent \$15 at the movie theater and \$6 on lunch. How much money does Trent have?

\$30 + \$12 - \$15 - \$6 = h; h = \$21; \$21

2. The cafeteria ordered 400 paper plates. They used 226 at breakfast. They bought 100 more. Then, they used some plates for lunch. Now there are 78 plates. How many plates did they use at lunch?

400 - 226 + 100 - x = 78; x = 196; 196 plates

3. Mia's family has \$150 to spend at the beach for the day. It cost them \$75 to rent a boat and \$35 for lunch. How much money do they have now?

\$150 - \$75 - \$35 = t; t = \$40; \$40

Vocabulary Check

Complete each sentence using the words below.

variable equation

- **4.** A(n) **variable** is a symbol, usually a letter, that is used to represent an unknown, or an amount that has not been identified.
- **5.** A(n) equation is a sentence that contains an equals sign (=), showing that both sides of the equals sign are equal.

Test Practice

6. There are 367 boxes of graham crackers at the grocery store. On Monday, 126 boxes are sold and on Tuesday, 92 boxes are sold. On Wednesday, 203 more boxes are delivered. How many boxes are there now? Which equation represents this situation?

(A) 367 + 126 + 92 - 203 = b (B) 367 - 126 - 92 + 203 = b \bigcirc 367 + 126 - 92 + 203 = b \bigcirc 367 + 126 - 92 + b = 203