

Lesson 6.4: Solving Equations Using Algebra

- Solve each equation using algebra. Verify each solution.
 - $x - 29 = 13$
 - $8x = 72$
 - $7x = 49$
 - $x + 19 = 73$
 - $3x - 8 = 46$
 - $2x + 11 = 55$
- Write, then solve, an equation to find each number. Verify the solution.
 - Seventeen more than a number is 73.
 - Thirteen less than a number is 47.
 - A number multiplied by six is 54.
 - Seven more than three times a number is 31.
 - Five less than two times a number is 29.
 - Nine more than nine times a number is 99.
- Write an equation you can use to solve each problem below. Solve the equation. Verify the solution.
 - Sharon baby-sat on Saturday for \$7/h. She was paid a bonus of \$5. How many hours did Sharon baby-sit if she was paid \$40?
 - David worked in a store and was paid \$8/h. He was paid a bonus of \$9. How many hours did David work if he was paid \$65?
 - Sarah worked in a coffee shop at the weekend and was paid \$6/h. She was given a bonus of \$12. How many hours did Sarah work if she was paid \$90?
- Write an equation you can use to solve each problem below. Solve the equation. Verify the solution.
 - Jeremy has \$84 in his savings account. Each week he saves \$18. When will he have a total of \$210?
 - Sandra has \$172 in her savings account. Each week she saves \$23. When will she have a total of \$264?
- Write an equation you can use to solve each problem below. Solve the equation. Verify the result.
 - At a tennis court, it costs \$12 to rent equipment plus \$6/h to rent a court. How long can you play for \$30?
 - At a fishing camp, it costs \$15 to rent equipment plus \$12/h to rent a boat. How long can you fish for \$75?
 - At the skate park, it costs \$8 to rent equipment plus \$3/h to use the rink. How long can you skate for \$20?