2-2 Solve Two-Step Equations Homework Practice

Solve each equation. Check your solution.

1. $-15 = 2t - 11$

2. $7k - 5 = -19$

3. $13 = 4x - 11$

4. $15 - 2b = -9$

5. $-\frac{1}{3}y - 6 = -11$

6. $16 - \frac{r}{7} = 21$

7. $-18 = 9x - 9$

8. $25 = 13 - 4s$

9. $6a + 6 = -18$

10. $\frac{k-3}{4} = 10$

11. $\frac{z+5}{7} = -3$

12. $\frac{9+t}{12} = -3$

13. **SHOPPING** Mrs. Williams shops at a store that has an annual membership fee of $30. Today she paid her annual membership and bought several fruit baskets costing $15 each as gifts for her coworkers. Her total was $105. Solve the equation $15b + 30 = 105$ to find the number of fruit baskets Mrs. Williams purchased.

14. **GAMES** A card game has 50 cards. After dealing 7 cards to each player, Tupi has 15 cards left over. Solve the equation $50 - 7p = 15$ to find the number of players.

2-3 Write Two-Step Equations Homework Practice

Translate each sentence into an equation.

1. Three more than eight times a number is equal to 19.

2. Twelve less than seven times a number is 16.

3. Four more than twice a number is –10.

4. Nine less than five times a number is equal to –30.

Define a variable. Then write and solve an equation to solve each problem.

5. ART Ishi bought a canvas and 8 tubes of paint for $24.95. If the canvas cost $6.95, how much did each tube of paint cost?

6. U.S. PRESIDENTS Use the information at the right.

a. If you double President Reagan's age at the time of his first inauguration and subtract his age at the time he died, the result is 45 years. How old was President Reagan when he died?

President	Age at First Inauguration
J. Carter	52
R. Reagan	69
G. H. W. Bush	?
W. Clinton	46
G. W. Bush	54

b. If you divide the age of the first President Bush when he was inaugurated by 2 and add 14 years, you get the age of President Clinton when he was first inaugurated. How old was President G. H. W. Bush when he was inaugurated?

7. ALGEBRA Three consecutive integers can be represented by n, $n + 1$, and $n + 2$. If the sum of three consecutive integers is 57, what are the integers?