

# 2-2 Homework Practice

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## Solving Two-Step Equations

Solve each equation. Check your answer.

1.  $6 + 3b = -18$

2.  $-3 + 5x = 12$

3.  $7n + 12 = -23$

4.  $\frac{t}{6} - 3 = 8$

5.  $-12 = 8 + \frac{f}{2}$

6.  $13 = 8 - 5d$

7.  $\frac{k}{4} + 6 = -2$

8.  $-22 = -8 + 7y$

9.  $16 - 3p = 34$

10.  $15 + \frac{q}{6} = -21$

11.  $-19 + \frac{c}{3} = 8$

12.  $-18 - 11r = 26$

13.  $-9 + \frac{y}{-3} = -6$

14.  $14 + \frac{m}{10} = 24$

Define a variable and write an equation for each situation. Then solve.

15. Chip earns a base salary of \$500 per month as a salesman. In addition to the salary, he earns \$90 per product that he sells. If his goal is to earn \$5000 per month, how many products does he need to sell?

16. A pizza shop charges \$9 for a large cheese pizza. Additional toppings cost \$1.25 per topping. Heather paid \$15.25 for her large pizza. How many toppings did she order?

17. $\frac{1}{3}a - 6 = -15$	18. $\frac{1}{4} = \frac{1}{4}h + 4$
19. $6.42 - 10d = 2.5$	20. <b>Writing</b> Describe, using words, how to solve the equation $6 - 4x = 18$ . List any properties utilized in the solution.