Name

Class

Date



Solving Two-Step Equations

2-2

**Practice** *Form G*

**Solve each equation. Check your answer.**

|  |  |  |  |
| --- | --- | --- | --- |
|  **1.** | 6 + 3*b* = –18 |  **2.** | –3 + 5*x* = 12 |
|  **3.** | 7*n* + 12 = –23 |  **4.** |  |
|  **5.** |  |  **6.** | 13 = 8 – 5*d* |
|  **7.** |  |  **8.** | –22 = –8 + 7*y* |
|  **9.** | 16 – 3*p* = 34 | **10.** |  |
| **11.** |  | **12.** | –18 – 11*r* = 26 |
| **13.** |  | **14.** |  |

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

1. 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?
2. 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?

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Name

Class

Date



Solving Two-Step Equations

2-2

**Practice** (continued)*Form G*

**Solve each equation. Check your answer.**

|  |  |  |  |
| --- | --- | --- | --- |
| **17.** |  | **18.** |  |
| **19.** |  | **20.** |  |
| **21.** |  | **22.** | 6.42 – 10*d* = 2.5 |

1. The selling price of a television in a retail store is $66 less than 3 times the wholesale price. If the selling price of a television is $899, write and solve an equation to find the wholesale price of the television.
2. The fare for a taxicab is $5 per trip plus $0.50 per mile. The fare for the trip from the airport to the convention center was $11.50. Write and solve an equation to find how many miles the trip is from the airport to the convention center.
3. An online movie club offers a membership for $5 per month. Members can rent movies for $1.50 per rental. A member was billed $15.50 one month. Write and solve an equation to find how many movies the member rented.
4. **Writing** Describe, using words, how to solve the equation 6 – 4*x* = 18. List any properties utilized in the solution.
5. **a.** Solve 

**b.** Write the right side of the equation in part (a) as the sum of two fractions.
Solve the equation.

**c.** Did you find the equation in part (a) or the rewritten equation easier to
solve? Why?

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