

Chapter 4 — Solving Two-Step and Multi-Step Equations

Worksheet B: Independent Practice

Name: _____ Grade: _____ Date: _____

1. Solve: $3(x-4)=27$

2. A gym charges a \$25 joining fee and \$15 per month. A member paid \$115. Write and solve an equation for the number of months.
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3. Solve: $-4(y+2)=16$

4. Solve: $6x-7=4x+9$

5. A car rental costs \$35 for one day plus \$0.25 per kilometre. A customer pays \$72. Write and solve an equation for the number of kilometres travelled.

6. Solve: $12 - 3m = -6$

7. Solve: $2(3a + 1) = 20$

8. Solve: $7r - 3 + 2r = 33$

9. Solve: $3m + 14 = 5m - 2$

10. Determine the number of solutions: $9p-4=9p-4$

11. The perimeter of a rectangle is 54 cm. The length is 5 cm more than the width. Write and solve an equation for the width.

12. Solve: $5x+8=33$

13. Solve: $-2p+7=19$

14. Solve: $n \div 5 - 4 = 3$

15. Solve: $5 - 2(2b - 3) = 17$

16. Solve: $4s + 9 - 6s = 21$

17. Solve: $8 - 2n = 4n - 10$

18. Determine the number of solutions: $2q + 11 = 2q - 1$

19. Two consecutive integers have a sum of 31. Write and solve an equation for the smaller integer.

20. A student solves $2(x-5)=18$ as follows: $x-5=9$; $x=14$. Is the student's method valid? Explain why or why not. Then check the solution in the original equation.
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