

Solving Multi-Step Equations Leveled Practice

Date _____ Period _____

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LEVEL 1: Solve each one or two step equation.

1) $78 = 13n$

2) $48 = -8b$

3) $\frac{v}{20} = -\frac{19}{20}$

4) $-14 = -20 + n$

5) $\frac{x}{9} = -6$

6) $2 = a + 9$

LEVEL 1 (cont): Solve each 2-step equation.

7) $-56 = 7(3 + x)$

8) $-3 = 3a + 6$

9) $12 = 6(n - 7)$

10) $-10x - 1 = -51$

11) $8(-5 + v) = 96$

12) $\frac{x}{5} + 2 = -1$

LEVEL 2: Solve each Multi-Step equation.

13) $-6(-6n + 2) = -228$

14) $-201 = -3 + 6(-6x - 3)$

15) $329 = -7(1 + 6b)$

16) $68 = 3(6r - 1) - 7(1 - 3r)$

17) $-12 = 5(6x + 4) + 7(x + 6)$

18) $-12 = -6(-8n + 6) + 8(-4 + n)$

LEVEL 2: Solve each equation with variables on both sides

19) $2n - 15 = -5n + 4n$

20) $5m - 4 = m + 4 + m + 4$

21) $3p + 1 - 5 = -16 + 6p$

22) $-5x + 13 = 1 - 7x$

LEVEL 3: Solve each multi-step equation with variables on both sides.

23) $35 + 7x = -3(-5 - 4x)$

24) $8(5 - 6v) = -7 - v$

25) $-7 - 5a = 7(8a - 1)$

26) $8n - 6(-5n - 3) = 18 + 7n$

27) $8(4 - 5m) = -4(6 + 8m)$

28) $8(x - 6) = -(x + 3)$

29) $1 + 8p - 4p + 5 = 2(p - 3) - 2(p - 2)$

30) $7(1 + 4n) = 7(6 + 3n)$

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LEVEL 1: Solve each one or two step equation.

1) $78 = 13n$

 $\{6\}$

2) $48 = -8b$

 $\{-6\}$

3) $\frac{v}{20} = -\frac{19}{20}$

 $\{-19\}$

4) $-14 = -20 + n$

 $\{6\}$

5) $\frac{x}{9} = -6$

 $\{-54\}$

6) $2 = a + 9$

 $\{-7\}$ **LEVEL 1 (cont): Solve each 2-step equation.**

7) $-56 = 7(3 + x)$

 $\{-11\}$

8) $-3 = 3a + 6$

 $\{-3\}$

9) $12 = 6(n - 7)$

 $\{9\}$

10) $-10x - 1 = -51$

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11) $8(-5 + v) = 96$

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12) $\frac{x}{5} + 2 = -1$

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13) $-6(-6n + 2) = -228$

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14) $-201 = -3 + 6(-6x - 3)$

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16) $68 = 3(6r - 1) - 7(1 - 3r)$

 $\{2\}$

17) $-12 = 5(6x + 4) + 7(x + 6)$

 $\{-2\}$

18) $-12 = -6(-8n + 6) + 8(-4 + n)$

 $\{1\}$ **LEVEL 2: Solve each equation with variables on both sides**

19) $2n - 15 = -5n + 4n$

 $\{5\}$

20) $5m - 4 = m + 4 + m + 4$

 $\{4\}$

21) $3p + 1 - 5 = -16 + 6p$

 $\{4\}$

22) $-5x + 13 = 1 - 7x$

 $\{-6\}$ **LEVEL 3: Solve each multi-step equation with variables on both sides.**

23) $35 + 7x = -3(-5 - 4x)$

 $\{4\}$

24) $8(5 - 6v) = -7 - v$

 $\{1\}$

25) $-7 - 5a = 7(8a - 1)$

 $\{0\}$

26) $8n - 6(-5n - 3) = 18 + 7n$

 $\{0\}$

27) $8(4 - 5m) = -4(6 + 8m)$

 $\{7\}$

28) $8(x - 6) = -(x + 3)$

 $\{5\}$

29) $1 + 8p - 4p + 5 = 2(p - 3) - 2(p - 2)$

 $\{-2\}$

30) $7(1 + 4n) = 7(6 + 3n)$

 $\{5\}$