

Solving Multi-Step Equations

Period _____

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SIMPLIFY (do not solve) each expression using the distributive property (Review).

1) $-5(6 + 9k)$

2) $-8(6b + 9)$

3) $9(1 + 8v)$

4) $9(1 - 3n)$

SIMPLIFY (do not solve) each expression using the distributive property and combine like terms (Review).

5) $6(7k + 8) + 9$

6) $5(7n + 9) + 5n$

7) $1 - 10(10 + 8x)$

8) $-4a + 2(-10 + 8a)$

SIMPLIFY (do not solve) each expression each expression by combining like terms (Review).

9) $2p + 9p$

10) $6n + 5 - 4$

11) $-4x - 9x$

12) $m + 3 - 3$

SOLVE each equation.

13) $4x - 2 + 6x = -2$

14) $3 = x - 1 + 3x$

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

16) $3r + r = 0$

$$17) -12 = b - 5b$$

$$18) -3 - 3n + 4 = 10$$

$$19) 127 = 3(1 + 5v) + 4$$

$$20) -5(-5 + 3x) = 85$$

$$21) 8(3 + k) = 88$$

$$22) -2(-5x + 2) = -84$$

$$23) -3(-7b - 2) = -99$$

$$24) -136 = -8(7 + 5a)$$

$$25) 2x - 5(x + 6) = 34 + 5x$$

$$26) -(1 - 5x) = -8x + 25$$

$$27) -36 - 7v = 2(1 - 7v) - 3$$

$$28) 30 + 8b = 2 + 5(5b - 8)$$

$$29) 14 - 6n = 8(n + 7)$$

$$30) r + 31 = -2(6r + 4)$$