

2.2 Solve Equations

Name: _____

Corrective Assignment

Directions: For each solution to the equations below justify each step with the given property.

<p>1) $-4n - 6 - 5n = -4n - 3n$</p> <p>$-4n - 5n - 6 = -4n - 3n$ _____</p> <p>$-9n - 6 = -7n$ _____</p> <p>$-6 = 2n$ _____</p> <p>$-3 = n$ _____</p> <p>{-3}</p>	<p>2) $-100 = 8 + 4(-3 + 3n)$</p> <p>$-100 = 8 - 12 + 12n$ _____</p> <p>$-100 = -4 + 12n$ _____</p> <p>$-96 = 12n$ _____</p> <p>$-8 = n$ _____</p> <p>{-8}</p>
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<p>3) $3(m + 5) - 2(4m + 1) = 38$</p> <p>$3m + 15 - 8m - 2 = 38$ _____</p> <p>$3m - 8m + 15 - 2 = 38$ _____</p> <p>$-5m + 13 = 38$ _____</p> <p>$-5m = 25$ _____</p> <p>$m = -5$ _____</p> <p>{-5}</p>	<p>4) $\frac{b+9}{14} - 8 = -6$</p> <p>$\frac{b+9}{14} = 2$ _____</p> <p>$b + 9 = 28$ _____</p> <p>$b = 19$ _____</p> <p>{19}</p>
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Directions: Solve each equation. Put your solution into set notation.

<p>5) $8 + a + 6 = 4a + 14 - 3a$</p>	<p>6) $-4 - 8x = 2 - 7x + 14 - 5x$</p>
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<p>7) $-6.2 + 1.8p = -0.6 + 0.8p - 2$</p>	<p>8) $-5x - 8(2x - 8) = -104$</p>
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9) $-6(1 + x) = 31 - 6x$	10) $4.4(1 + 5.5m) - 7.8m = 99.52$
11) $16 = \frac{n+6}{2} + 5$	12) $-4 + \frac{n+4}{5} = -6$
13) $-38 = 3(4v + 7) + 5(7v + 7)$	14) $-(8 - 6n) = -(-7n - 5)$

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Corrective Assignment Answers

- 1) Commutative prop/combine like terms/additive prop of eq/division prop of eq
- 2) Distributive prop/combine like terms/additive prop of eq/division prop of eq
- 3) Distributive prop/commutative prop/combine like terms/subtraction prop of eq/division prop of eq
- 4) additive prop of eq/multiplicative prop of eq/subtraction prop of eq
- 5) {all real numbers} 6) {5} 7) {3.6} 8) {8} 9) { } or no solution 10) {5.8} 11) {16} 12) {-14}
- 13) {-2} 14) {-13}