

Standard 8.EE.7 (L–M)

**Solving Linear Equations**

**Directions:** Solve each of the following equations. Note whether the equation has one solution, no solutions, or an infinite number of solutions. If there is one solution, write the solution.

1.  $5x - 4 = 5x$

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2.  $5x - 14 = 8x + 4$

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3.  $5x + 34 = -2(1 - 7x)$

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4.  $8x + 4(4x - 3) = 4(6x + 4) - 4$

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5.  $-10 + x + 4 - 5 = 7x - 5$

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6.  $24x - 22 = -4(1 - 6x)$

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7.  $-8x + 4(1 + 5x) = -6x - 14$

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8.  $x - 3x = 14 - 4x$

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9.  $3(1 - 3x) = 2(-4x + 7)$

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10.  $2(4x - 3) - 8 = 4 + 2x$

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11.  $6x + 7 = 13 + 7x$

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12.  $13.7x - 6.5 = -1.1x + 8.3$

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13.  $13 - 4x = 1 - x$

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14.  $4(-8x + 5) = -32x - 26$

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15.  $28 - 4.2x = 3.8x + 262.6$

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16.  $-(1 + 7x) - 6(-7 - x) = 36$

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17.  $7 - 3x = x - 4(2 + x)$

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18.  $\left(\frac{3}{5}\right)x - \left(\frac{1}{10}\right)x = \left(\frac{1}{2}\right)x + 1$

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19.  $7(x + 3) = 6x - 18$

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20.  $3(x - 4) = 3x - 12$

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