

Solving for x (distribution included) Math 9 name: \_\_\_\_\_

1) Solve the following for x (reduce your fractions to lowest terms if needed)

<p>a) <math>-2(3x - 7) = 56</math>  <math>-6x + 14 = 56</math>  <math>-6x = 42</math>  <math>x = -7</math></p>	<p>b) <math>6(1 - 4x) = -18</math>  <math>6 - 24x = 18</math>  <math>-24x = -24</math>  <math>x = 1</math></p>	<p>c) <math>-(4x - 5) + 15 = 32</math>  <math>-4x + 5 + 15 = 32</math>  <math>-4x + 20 = 32</math>  <math>-4x = 12</math>  <math>x = -3</math></p>
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<p>d) <math>4(2x + 5) - 8 = 36</math>  <math>8x + 20 - 8 = 36</math>  <math>8x + 12 = 36</math>  <math>8x = 24</math>  <math>x = 3</math></p>	<p>f) <math>-7(2x - 7) = 18</math>  <math>-14x + 49 = 18</math>  <math>-14x = -31</math>  <math>x = \frac{31}{14}</math></p>	<p>g) <math>12x + 3(2x + 1) = 9</math>  <math>12x + 6x + 3 = 9</math>  <math>18x + 3 = 9</math>  <math>18x = 6</math>  <math>x = \frac{1}{3}</math></p>
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<p>h) <math>-3(4x + 5) = 17</math>  <math>-12x - 15 = 17</math>  <math>-12x = 32</math>  <math>x = -\frac{8}{3}</math></p>	<p>i) <math>-8(3x + 1) + 24 = 26</math>  <math>-24x - 8 + 24 = 26</math>  <math>-24x + 16 = 26</math>  <math>-24x = 10</math>  <math>x = -\frac{5}{12}</math></p>	<p>j) <math>-2x + 8(2x - 5) = 10</math>  <math>-2x + 16x - 40 = 10</math>  <math>14x = 50</math>  <math>x = \frac{25}{7}</math></p>
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<p>k) <math>5(3x - 4) + 12(2x + 1) = 18</math>  <math>15x - 20 + 24x + 12 = 18</math>  <math>39x - 8 = 18</math>  <math>39x = 26</math>  <math>x = \frac{2}{3}</math></p>	<p>l) <math>3(9x + 1) - 2(5x + 1) = 18</math>  <math>27x + 3 - 10x - 2 = 18</math>  <math>17x + 1 = 18</math>  <math>17x = 17</math>  <math>x = 1</math></p>
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Extend your skills and strive for excellence! .....up for a challenge??

$-6(3x - 2) + 7(2x + 11) - 15(6 - x) + 12(3x - 1) - 18x - (11 - 6x) + 14(6 - 5x) - 180 = 220$