

#3

NAME _____

DATE _____

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Pre-Algebra Extra Practice
Chapter 4.3

<p>1)</p> $-5(2w+1) = 25$ $\begin{array}{r} -10w - 5 = 25 \\ \quad + 5 \quad + 5 \\ \hline -10w = 30 \\ \quad \underline{-10} \quad \underline{-10} \\ \hline w = -3 \end{array}$	<p>2)</p> $4(5-p) = 8$ $\begin{array}{r} 20 - 4p = 8 \\ \underline{-20} \quad \underline{-20} \\ \hline -4p = -12 \\ \quad \underline{-4} \quad \underline{-4} \\ \hline p = 3 \end{array}$	<p>3)</p> $-40 - (2x+5) = -61$ $\begin{array}{r} -40 - 2x - 5 = -61 \\ \quad \quad \quad -2x - 45 = -61 \\ \quad \quad \quad \quad + 45 \quad + 45 \\ \hline -2x = -16 \\ \quad \underline{-2} \quad \underline{-2} \\ \hline x = 8 \end{array}$
<p>4)</p> $2 = 4(3k-8) - 11k$ $2 = 12k - 32 - 11k$ $\begin{array}{r} 2 = k - 32 \\ \underline{+32} \quad \underline{+32} \\ \hline k = 34 \end{array}$	<p>5)</p> $42 = 18t + 4(t+5)$ $42 = 18t + 4t + 20$ $\begin{array}{r} 42 = 22t + 20 \\ \underline{-20} \quad \underline{-20} \\ \hline 22 = 22t \\ \quad \underline{22} \quad \underline{22} \\ \hline t = 1 \end{array}$	<p>6)</p> $-3(2z-8) + 10z = 16$ $-6z + 24 + 10z = 16$ $\begin{array}{r} 4z + 24 = 16 \\ \quad \underline{-24} \quad \underline{-24} \\ \hline 4z = -8 \\ \quad \underline{4} \quad \underline{4} \\ \hline z = -2 \end{array}$
<p>7)</p> $-5g - (8-g) = 12$ $-5g - 8 + g = 12$ $\begin{array}{r} -4g - 8 = 12 \\ \quad \underline{+8} \quad \underline{+8} \\ \hline -4g = 20 \\ \quad \underline{-4} \quad \underline{-4} \\ \hline g = -5 \end{array}$	<p>8)</p> $-5 = 0.25(4+20r) - 8r$ $-5 = 1 + 5r - 8r$ $-5 = 1 - 3r$ $\begin{array}{r} \underline{-1} \quad \underline{-1} \\ \hline -6 = -3r \\ \quad \underline{-3} \quad \underline{-3} \\ \hline r = 2 \end{array}$	<p>9)</p> $2m + .5(m-4) = 9$ $2m + .5m - 2 = 9$ $2.5m - 2 = 9$ $\begin{array}{r} \underline{+2} \quad \underline{+2} \\ \hline 2.5m = 11 \\ \quad \underline{2.5} \quad \underline{2.5} \\ \hline m = 4.4 \end{array}$

<p>10)</p> $-12 = -2h + 2(20 - 6h)$ $-12 = -2h + 4 - 12h$ $\begin{array}{r} -12 = -3.2h + 4 \\ \underline{-4} \\ -16 = -3.2h \end{array}$ $\begin{array}{r} \underline{-3.2} \\ -16 = -3.2h \\ \hline h = 5 \end{array}$	<p>11)</p> $5x - 2(x - 1) = 8$ $5x - 2x + 2 = 8$ $\begin{array}{r} 3x + 2 = 8 \\ \underline{-2} \\ 3x = 6 \end{array}$ $\boxed{x = 2}$	<p>12)</p> $-21 = 7(3 - x)$ $-21 = 21 - 7x$ $\begin{array}{r} -21 \\ \underline{-21} \\ -42 = -7x \end{array}$ $\begin{array}{r} \underline{-7} \\ -42 = -7x \\ \hline x = 6 \end{array}$
<p>13)</p> $-3(8 - 4x) = 12$ $\begin{array}{r} -24 + 12x = 12 \\ \underline{+24} \\ 12x = 36 \end{array}$ $\begin{array}{r} \underline{12} \\ 12x = 36 \\ \hline x = 3 \end{array}$	<p>14)</p> $13t - 7 - 10t = 2$ $\begin{array}{r} 3t - 7 = 2 \\ \underline{+7} \\ 3t = 9 \end{array}$ $\begin{array}{r} \underline{3} \\ 3t = 9 \\ \hline t = 3 \end{array}$	<p>15)</p> $22 + 4y - 14 = 0$ $\begin{array}{r} 8 + 4y = 0 \\ \underline{-8} \\ 4y = -8 \end{array}$ $\begin{array}{r} \underline{4} \\ 4y = -8 \\ \hline y = -2 \end{array}$