

P.10-11 Solving Linear Equations	Sect. 1.4
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**GOALS:**

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By the end of the lesson, YOU should be able to:

To solve multi-step Linear Equations

EXPRESSION

$3n + 2$

no =

simplify

EQUATION

$3n + 2 = 17$

n = ?

What does it mean to SOLVE an EQUATION?

**SOLVING LINEAR EQUATIONS**

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$  \begin{array}{r}  1) \quad 3x - 30 = -15 \\  \quad \quad +30 \quad +30 \\  \hline  3x = 15 \\  \quad \quad \underline{\quad} \\  x = 5  \end{array}  $	$  \begin{array}{r}  2) \quad 60 = \frac{1}{4}x + 20 \\  \quad \quad -20 \quad -20 \\  \hline  4 \cdot 40 = \frac{1}{4}x \cdot 4 \\  160 = x  \end{array}  $
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Distribute, Combine like terms, Get Variables on one side, &amp; Solve.

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$$8) \quad 3(4x-1) + 4 = -5(x+4) + 3x$$

$$12x - 3 + 4 = -5x - 20 + 3x$$

$$\begin{array}{r} 12x + 1 = -2x - 20 \\ + 2x \qquad \qquad + 2x \\ \hline \end{array}$$

$$\begin{array}{r} 14x + 1 = -20 \\ - 1 \qquad - 1 \\ \hline \end{array}$$

$$\begin{array}{r} 14x = -21 \\ \hline \end{array}$$

$$x = -1.5$$

$$-\frac{3}{2}$$

Assignment: Workbook pp. 15-16