

**STEPS TO SOLVE**

1. Distribute IF NEEDED
2. COMBINE Like TERMS
3. ISOLATE THE Variable  
(PEMDAS IN REVERSE)
4. CHECK THE Solution

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**EXAMPLES**

<p>1. <math>2n + 6n = 16</math></p> $\frac{8n}{8} = \frac{16}{8}$ $n = 2$ <p>check:</p> $2(2) + 6(2) = 16$ $4 + 12 = 16$ $16 = 16$	<p>2. <math>3(x + 5) = 18</math></p> $3x + 15 = 18$ $-15 \quad -15$ $\frac{3x}{3} = \frac{3}{3}$ $x = 1$
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### EXAMPLES

$$3. \quad -2(4p - 6) + 2 = 62$$

$$-8p + 12 + 2 = 62$$

$$-8p + 14 = 62$$

$$\begin{array}{r} -8p = 48 \\ \underline{-8} \quad \underline{-8} \end{array}$$

$$p = -6$$

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### EXAMPLES

$$4. \quad 2.59x + 13.76 - 1.76x = 18.11$$

$$4.35x + 13.76 = 18.11$$

$$\begin{array}{r} -13.76 \quad -13.76 \end{array}$$

$$\begin{array}{r} 4.35x = 4.35 \\ \underline{4.35} \quad \underline{4.35} \end{array}$$

$$x = 1$$

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**EXAMPLES**

Alex had a savings account, but did not have enough for a \$100 pair of shoes. His mother gave her half of his savings and his brother gave another quarter of his savings. If Alex ended up with \$100 exactly in his savings account. How much did he have originally?

$x$  - Savings

$$\left[ x + \frac{1}{2}x + \frac{1}{4}x \right] = 100 \quad \text{- Common}$$

$$\frac{4}{4}x + \frac{2}{4}x + \frac{1}{4}x = 100 \quad \text{denom}$$

$$\frac{7}{4}x = 100 \quad (4)$$

$$x = 14.28\bar{5}$$

$$\frac{7x}{7} = \frac{100}{7}$$

$$\boxed{\$14.28\bar{5}}$$

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