

You may need to use the Distributive Property to solve an equation that has parentheses. Multiply each term inside the parentheses by the factor that is outside the parentheses. Then combine like terms.

$$2(3+4)$$

$$2 \cdot 7 = 14$$

$$2(3+4)$$

$$6+8=14$$

Jan 13-8:53 AM

**Solve  $5(y - 2) + 6 = 21$**

$$5y - 10 + 6 = 21$$

$$5y - 4 = 21$$

$$\begin{array}{r} +4 \quad +4 \\ \hline \end{array}$$

$$\frac{5y = 25}{5 \quad 5}$$

$$y = 5$$

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**Solve  $3(z - 1) + 8 = 14$**

$$3z - 3 + 8 = 14$$

$$3z + 5 = 14$$

$$\begin{array}{r} -5 \quad -5 \\ \hline \end{array}$$

$$\frac{3z = 9}{3 \quad 3}$$

$$z = 3$$

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**Solve  $3(x - 3) + 4 = 28$**

$$3x - 9 + 4 = 28$$

$$3x - 5 = 28$$

$$\begin{array}{r} +5 \quad +5 \\ \hline \end{array}$$

$$\frac{3x = 33}{3 \quad 3}$$

$$x = 11$$

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**$2(z + 5) + 4 = -12$**

$$2z + 10 + 4 = -12$$

$$2z + 14 = -12$$

$$\begin{array}{r} -14 \quad -14 \\ \hline \end{array}$$

$$\frac{2z = -26}{2 \quad 2}$$

$$z = -13$$

Feb 8-9:21 AM

$$7 \cdot \frac{2c + 6}{7} = 30 \cdot 7$$

$$\frac{7}{7} (2c + 6) = 210$$

$$2c + 6 = 210$$

$$\begin{array}{r} -6 \quad -6 \\ \hline \end{array}$$

$$2c = 204$$

$$\frac{2c = 204}{2 \quad 2}$$

$$c = 102$$

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$$6. \frac{3c - 9}{6} = 24 \cdot 6$$

$$3c - 9 = 144$$

$$+9 \quad +9$$

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$$3c = 153$$

$$\frac{3c}{3} = \frac{153}{3}$$

$$c = 51$$

Jan 13-9:31 AM

**Solve**

$$2. \frac{2h - 4}{2} = 24 \cdot 2$$

$$2h - 4 = 48$$

$$+4 \quad +4$$

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$$2h = 52$$

$$\frac{2h}{2} = \frac{52}{2}$$

$$h = 26$$

Feb 8-9:18 AM