

## Clean up equations with distributive property

1.  $4(4x + 3) = 60$

*2-step* →  $16x + 12 = 60$  *distribute first!*

$$\begin{array}{r} 16x + 12 = 60 \\ -12 \quad -12 \\ \hline 16x = 48 \\ \hline 16 \quad 16 \\ x = 3 \end{array}$$

2.  $3(5x - 7) = -66$

$$\begin{array}{r} 15x - 21 = -66 \\ +21 \quad +21 \\ \hline 15x = -45 \\ \hline 15 \quad 15 \\ x = -3 \end{array}$$

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3.  $-5(4x - 8) = 175$

$$\begin{array}{r} -20x + 40 = 175 \\ -40 \quad -40 \end{array}$$

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$$\begin{array}{r} -20x = 135 \\ \hline -20 \quad -20 \end{array}$$

$$x = -6.75 \text{ or } -\frac{27}{4}$$

4.  $(2) \left( \frac{5x - 4}{2} \right) = 23 \quad (2)$

Get rid of fraction  $\rightarrow 2$

$$5x - 4 = 46$$

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

$$\begin{array}{r} 5x = 50 \\ \hline 5 \quad 5 \end{array}$$

$$x = 10$$