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## Solve Equations With the Distributive Property

You can use the distributive property to help solve some equations.
Let's Solve $4(h-9)+7=3$. Use the distributive property to help.
try it!

Use the distributive property. Distribute 4 to each of the terms inside of the parentheses.

Simplify. Then identify and combine the like terms on the same side of the equation. Pay attention to the signs.

Use inverse operations to get the constant terms together on one side of the equation. Add 29 to both sides and simplify.

Use inverse operations to get h alone. Divide both sides by 4 and simplify.

$$
\begin{aligned}
4(h-9)+7 & =3 \\
4(h)+4(-9)+7 & =3 \\
4 h-36+7 & =3 \\
4 h-29 & =3 \\
4 h-29+29 & =3+29 \\
4 h & =32 \\
\frac{4 h}{4} & =\frac{32}{4} \\
h & =8
\end{aligned}
$$

Practice! Solve each equation.


