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## Lesson 5 Reteach

## Solve Multi-Step Equations

## Example 1

Solve 2(4a-5) = 30 .

$$
\begin{aligned}
2(4 a-5) & =30 & & \text { Write the equation. } \\
8 a-10 & =30 & & \text { Distributive Property } \\
8 a-10+10 & =30+10 & & \text { Addition Property of Equality } \\
8 a & =40 & & \text { Simplify. } \\
\frac{8 a}{8} & =\frac{40}{8} & & \text { Division Property of Equality } \\
a & =5 & & \text { Simplify. }
\end{aligned}
$$

## Example 2

BOOKS Roland has 3 paperback books and 4 hardcover books. Each hardcover book is worth $\mathbf{\$ 1 1}$ more than each paperback book. If the value of all of his books is $\$ 79$, what is the cost of one paperback book?


Write an equation to represent the bar model.

$$
\begin{aligned}
3 p+4(p+11) & =79 \\
3 p+4 p+44 & =79 \\
7 p+44 & =79 \\
7 p+44+(-44) & =79+(-44) \\
7 p & =35 \\
\frac{7 p}{7} & =\frac{35}{7} \\
p & =5
\end{aligned}
$$

Write the equation.
Distributive Property
Simplify.
Addition Property of Equality
Simplify.
Division Property of Equality
Simplify.

So, the cost of one paperback book is $\$ 5$.
$\qquad$
$\qquad$

## Exercises

Solve each equation. Check your solution.

1. $2(3 b-1)=40$
2. $49=-7(t+1)$
3. $5(1-n)=75$
4. $4(x-2)=3(x-3)$
5. $-5(p+2)=2(2 p-15)+p$
6. $4 z-6=6(z+2)+8$
