U4:L3 Equations with Variable on Both Sides
Some equations are simple to solve, requiring only one step to solve.
Others are more complicated, requiring you to do more than one step.
For these more complicated equations, follow these steps:



Suppose a video store charges nonmembers $\$ 4$ to rent each video. A store membership costs $\$ 21$ and members pay only $\$ 2.50$ to rent each video. For what number of videos is the cost the same?

A hairdresser is considering ordering a certain shampoo. Company A charges $\$ 4$ per $8-\mathrm{oz}$ bottle plus a $\$ 10$ handling fee per order. Company B charges $\$ 3$ per 8-oz bottle plus a $\$ 25$ handling fee per order. How many bottles must the hairdresser buy to justify using Company B?

