## Solving Multi-Step Equations: Part 1

You can solve an equation by getting the variable alone on one side of the equation. When solving a multi-step equation, you will need to complete multiple steps.

Let's try it! Solve the equation $5(4 h-3)=13+6 h$.


| $5(4 h-3)=13+6 h$ | Apply distributive property. Multiply the terms inside of the parentheses by 5 . |
| :---: | :---: |
| $20 h-15=13+6 h$ |  |
| $20 h-15-6 h=13+6 h-6 h$ | Subtract 6 from both sides of the equation to get the variable term to one side. |
| $14 h-15=13$ |  |
| $14 h-15+15=13+15$ | Add 15 to both sides of the equation to get the variable term alone. |
| $14 h=28$ |  |
| $\frac{14 h}{14}=\frac{28}{14}$ | Divide both sides of the equation by 14 to get h alone. |
| $h=2$ |  |

Practice! Solve each equation.

| $2 n-7-5 n=11$ | $n=-6$ |  |  |
| :--- | :--- | :--- | :--- |
|  |  |  |  |
| $6(2 p+7)=5$ | $4-9 c-12+3 c=22$ | $k=2$ |  |
| $7 r-7=5(r-3)$ | $r=-4$ |  |  |
| $5 d+10-3 d=27+9 d+32$ | $d=-7$ |  | $w=-5$ |

