### 2.1 One Step Equations

To solve an equation or formula, isolate the variable (unknown) by doing the opposite.

If a quantity is added to the variable, subtract that quantity from each side.
$-15+f=-1$

$$
\begin{aligned}
15-15+f & =-1-(-15) \quad f=-1-(-15) \\
0+f & =14 \\
f & =14
\end{aligned}
$$

If a quantity is subtracted from the variable, add that quantity to each side.
$p-0.1=1.4$
$p-0.1+0.1=1.4+0.1$
$p=1.4+0.1$
$\mathrm{p}=1.5$
If a quantity is multiplied by the variable, divide each side by that quantity.
$-60=-12 k$
$\frac{-60}{12}=\frac{-12 k}{12}$
-12 -12
$5=1 k$
$5=\mathrm{k}$

If the variable is divided by a quantity, multiply each side by that quantity.

$$
\frac{e}{13}=4
$$

$$
\underline{e} \times 13=4 \times 13
$$

$$
\overline{13}
$$

$\frac{e}{1}=52$
$e=52$

$$
\begin{aligned}
p 51-53 & \# 1-7 \\
& \# 17-19
\end{aligned}
$$

