

## 6.2 Proportions to Solve

If  $\frac{a}{b} = \frac{c}{d}$ , then  $\frac{b}{a} = \frac{d}{c}$  } are reciprocals

$$\text{Ex. } \frac{1}{2} = \frac{3}{6} \rightarrow \frac{2}{1} = \frac{6}{3}$$

$\frac{a}{b} = \frac{c}{d}$ , then  $\frac{a}{c} = \frac{b}{d}$  } Swapped one on diagonal

$$\text{Ex. } \frac{1}{2} = \frac{3}{6} \rightarrow \frac{1}{3} = \frac{2}{6}$$

or

$$\frac{2}{b} = \frac{c}{a}$$

$$\frac{1}{2} = \frac{3}{6} \rightarrow$$

$\frac{a}{b} = \frac{c}{d}$ , then  $\frac{a+b}{b} = \frac{c+d}{d}$

$$\frac{1}{2} = \frac{3}{6} \rightarrow \frac{1+2}{2} = \frac{3+6}{6}$$

$$\frac{3}{2} = \frac{9}{6}$$