

# RATIOS, PROPORTIONS, AND PERCENTS

## RATIOS

- COMPARISON BETWEEN TWO NUMBERS
- CAN BE SEEN EXPRESSED LIKE:

$$\frac{2}{4}$$

2 to 4  
2 : 4

↑ FRACTIONS ARE THE MOST COMMON REPRESENTATION

## PROPORTIONS



• KIND OF LIKE A SCALE

- EQUATIONS THAT REPRESENT TWO RATIOS AS EQUAL

$$\frac{1}{2} = \frac{2}{4}$$

PROPORTIONS

RATIO

RATIO

## PERCENTS

- PARTS PER 100

PER : CENT  
DIVISION 100

$$33\% = 33/100 = 33 \div 100$$

$$40\% = 40/100 = 40 \div 100$$

WHAT NUMBER IS 25% OF 100?  
VARIABLE                      DIVIDE BY 100                      # AFTER OF IS IN DENOMINATOR

$$\frac{25}{100} \times \frac{x}{100}$$

\* CROSS MULTIPLY

$$\frac{100x}{100} = \frac{2500}{100}$$

\* GET X ALONE

$$x = 25$$