Name: $\qquad$ KFY
Date: $\qquad$

## MISSING DIMENSIONS

VOCABULARY
DIMENSION: a measure in $\qquad$ direction

INVERSE OPERATION: operations that undo each other

## HOW DO I FIND A MISSING DIMENSION???

***Use the inverse_operation of the appropriate formula!!!!
***PERIMETER ONLY $\rightarrow$ After you_subtract , be sure to __ divide _ the difference by _ 2 _ to find ONE dimension!!

## EXAMPLES:

The Smith family bought a rectangular sandbox. The area of the sandbox is 192 square meters. If the length is 12 meters, what is the width of the sandbox?

STEP ONE: $\quad A=L \times W$
STEP TWO: $192=12 \times W$
STEP THREE: $192 \div 12=16$

ANSWER: 16 meters wide

Jane is measuring the length and width of a door. The length is 99 inches long. The perimeter of the door is 264 inches. What is the width of the door?

STEP ONE: $\quad P=L+W+L+W$
STEP TWO: $\quad 264=99+W+99+W$
STEP THREE: $264-99=165$

$$
165-99=66
$$

$$
66 \div 2=33
$$

ANSWER: 33 inches wide
A rectangular field has a width of 90 meters. The perimeter of the field is 340 meters. What is the length of the field?

$$
\begin{array}{ll}
\text { STEP ONE: } & P=L+W+L+W \\
\text { STEP TWO: } & 340=L+90+L+90 \\
\text { STEP THREE: } & 340-90=250 \\
& 250-90=160 \\
& 160 \div 2=80
\end{array}
$$

ANSWER: 80 meters long
Kyle has a square garden in his backyard. The area of the garden is 164 square feet. What is the side length of the garden?

STEP ONE: $\quad A=4 \times S$
STEP TWO: $\quad 164=4 \times S$
STEP THREE: $164 \div 4=41$

ANSWER: 41 feet

