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MISSING DIMENSIONS

VOCABULARY

DIMENSION: a measure in <u>one</u> direction

INVERSE OPERATION: operations that <u>undo</u> each other

HOW DO I FIND A MISSING DIMENSION ???

***Use the <u>inverse</u> operation of the appropriate formula!!!! ***PERIMETER ONLY \rightarrow After you <u>subtract</u> be sure to

PCF		R UNLY 7 After you		, de 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:
 A = L X W

 STEP TWO:
 192 = 12 X W

 STEP THREE:
 192 ÷ 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:P = L + W + L + WSTEP TWO:264 = 99 + W + 99 + WSTEP THREE:264 - 99 = 165165 - 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?

STEP ONE:P = L + W + L + WSTEP TWO:340 = L + 90 + L + 90STEP THREE:340 - 90 = 250250 - 90 = 160 $160 \div 2 = 80$

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: $A = 4 \times S$ STEP TWO: $164 = 4 \times S$ STEP THREE: $164 \div 4 = 41$ ANSWER:41 feet