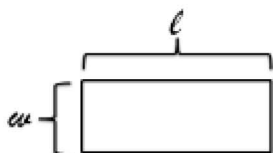


Name _____

Date _____

Replacing Letters with Numbers

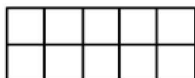
1. In the drawing below, what do the letters l and w represent?



2. What does the expression $l + w + l + w$ represent?

3. What does the expression $l \cdot w$ represent?

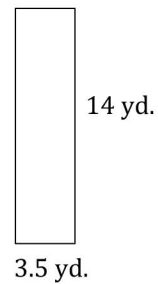
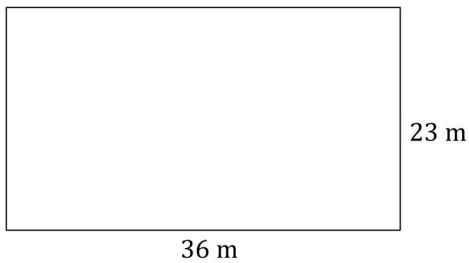
4. The rectangle below is congruent to the rectangle shown in Problem 1. Use this information to evaluate the expressions from Problems 2 and 3.



1. Replace the side length of this square with 4 in. and find the area.



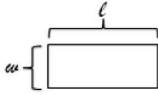
2. Complete the table for each of the given figures.



Length of Rectangle	Width of Rectangle	Rectangle's Area Written as an Expression	Rectangle's Area as a Number

3. Find the perimeter of each quadrilateral in Problems 1 and 2.
4. Using the formula $V = l \times w \times h$, find the volume of a right rectangular prism when the length of the prism is 45 cm, the width is 12 cm, and the height is 10 cm.

1. In the drawing below, what do the letters l and w represent?



Length and width of the rectangle

2. What does the expression $l + w + l + w$ represent?

Perimeter of the rectangle, or the sum of the sides of the rectangle

3. What does the expression $l \cdot w$ represent?

Area of the rectangle

4. The rectangle below is congruent to the rectangle shown in Problem 1. Use this information to evaluate the expressions from Problems 2 and 3.



$l = 5$ and $w = 2$

$P = 14$ units

$A = 10$ units²

1. Replace the side length of this square with 4 in., and find the area.



The student should draw a square, label the side 4 in., and calculate the area to be 16 in².

2. Complete the table for each of the given figures.



36 m

23 m



3.5 yd.

14 yd.

Length of Rectangle	Width of Rectangle	Rectangle's Area Written as an Expression	Rectangle's Area Written as a Number
36 m	23 m	$36 \text{ m} \times 23 \text{ m}$	828 m^2
14 yd.	3.5 yd.	$14 \text{ yd.} \times 3.5 \text{ yd.}$	49 yd^2

3. Find the perimeter of each quadrilateral in Problems 1 and 2.

$P = 16 \text{ in.}$

$P = 118 \text{ m}$

$P = 35 \text{ yd.}$

4. Using the formula $V = l \times w \times h$, find the volume of a right rectangular prism when the length of the prism is 45 cm, the width is 12 cm, and the height is 10 cm.

$V = l \times w \times h$; $V = 45 \text{ cm} \times 12 \text{ cm} \times 10 \text{ cm} = 5,400 \text{ cm}^3$