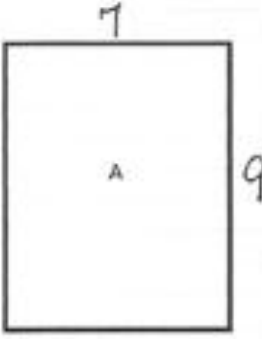


Name Jack

Date _____

1. Determine the perimeter and area of rectangles A and B.

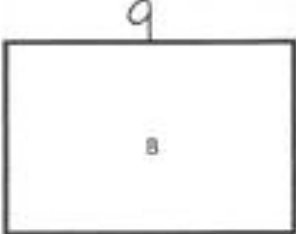
$P = 2 \times (l + w)$
 $P = 2 \times 16$
 $P = 32$



$A = l \times w$
 $A = 7 \times 9$
 $A = 63$

$A = 63$ square units
 $P = 32$ units

$P = 2 \times (l + w)$
 $P = 2 \times 15$
 $P = 30$




$A = l \times w$
 $A = 9 \times 6$
 $A = 54$

$A = 54$ square units
 $P = 30$ units

2. Determine the perimeter and area of each rectangle.

a.




$P = 2 \times (l + w)$
 $P = 2 \times 11$
 $P = 22$

$A = l \times w$
 $A = 6 \times 5 = 30$

$P = 22$ cm
 $A = 30$ sq. cm

b.




$P = 2 \times (l + w)$
 $P = 2 \times 11$
 $P = 22$

$A = l \times w$
 $A = 3 \times 8 = 24$

$P = 22$ cm
 $A = 24$ sq. cm

3. Determine the perimeter of each rectangle.


a.



$P = 2 \times (l + w)$
 $P = 2 \times 265 = 530$

$P = 530$ m

b.




$P = 2 \times (l + w)$
 $P = 2 \times 225$
 $P = 450$

$P = 450$ cm or 4 m 50 cm



4. Given the rectangle's area, find the unknown side length.

a.



8 cm
80 square cm
x cm

$$A = L \times W$$

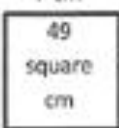
$$A = 8 \times W$$

$$80 = 8 \times X$$

$$X = 10$$

x = 10

b.



7 cm
49 square cm
x cm

$$A = L \times W$$

$$A = 7 \times W$$


$$49 = 7 \times X$$

$$X = 7$$

x = 7

5. Given the rectangle's perimeter, find the unknown side length.

a. P = 120 cm



20 cm
x cm

$$P = 2L + 2W$$

$$2L = 20 + 20 = 40$$

$$120 = 40 + 2W$$


$$80 = 2W$$

$$80 \div 2 = W$$

$$40 = W$$

x = 40

b. P = 1,000 m



x m
250 m

$$P = 2L + 2W$$

$$2W = 250 + 250 = 500$$

$$1,000 = 2L + 500$$

$$500 = 2L$$

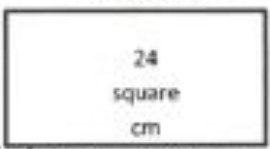
$$500 \div 2 = L$$

$$250 = L$$

x = 250


6. Each of the following rectangles has whole number side lengths. Given the area and perimeter, find the length and width.

a. P = 20 cm



1 = 1 cm
24 square cm
w = 4 cm

b. P = 28 m



w = 12 m
24 square m
l = 2 m

A = 24	
A = L x W	
W	L
1	24
2	12
3	8
4	6

$P = 2 \times (L+W)$
 $P = 2 \times 25$ NO!
 $P = 28$ YES!
 $P = 2 \times (L+W)$
 $P = 2 \times 11$ NO!
 $P = 28$ YES!
 $P = 2 \times (L+W)$
 $P = 2 \times 10$ YES!
 $P = 20$ YES!