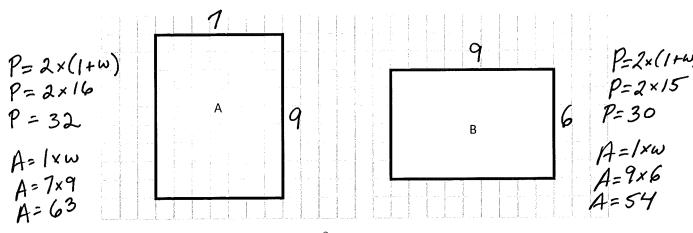
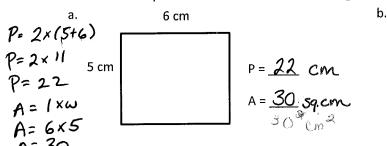
Name

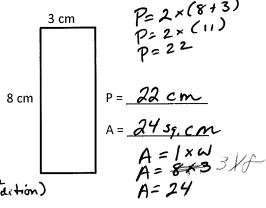
Date

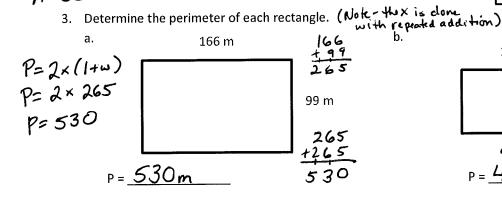
1. Determine the perimeter and area of rectangles A and B.



2. Determine the perimeter and area of each rectangle.







1 m 50 cm	150cm + 75cm
	75 cm 225
	P= 2 × (1+ w)
450cm or	P=2×225
P = 4m 50 cm	P= 450
225 +225 450	
	on Property and the state of the section

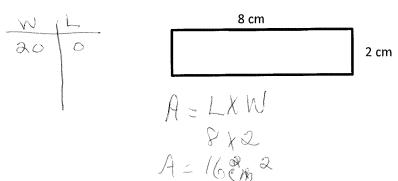
Lesson 1: Date:

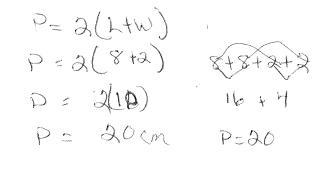
Investigate and use the formulas for area and perimeter of rectangles. 8/28/13

3.A.11

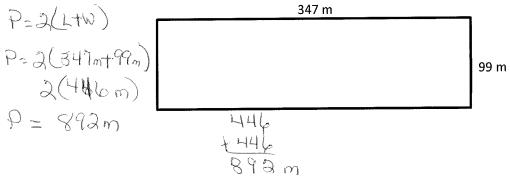
••	Data
Name	Date

1. Determine the area and perimeter of the rectangle.

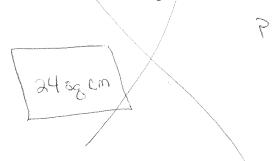




2. Determine the perimeter of the rectangle.



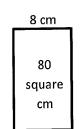
3. A rectangle with whole number side lengths has an area of 24 square centimeters and a perimeter of 22 centimeters. Find the length and width of the rectangle.



división not exposel to yet

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

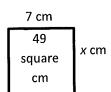
a.



x cm

A =/	χω
80=	8×X
X=	10

b.



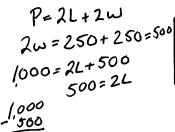
$$\begin{array}{c} 49 = 7 \\ \times = 7 \end{array}$$

250 m

5. Given the rectangle's perimeter, find the unknown side length. * Note the division involved in this problem.

a. P = 120 cm

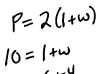
20 cm



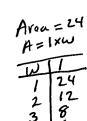
b. P = 1,000 m

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

a. P = 20 cm



24 square



b. P = 28 m

 $w = \frac{12m}{1}$ $\frac{24}{5}$ $\frac{14 = 1+w}{14 = 2+12}$

Lesson 1: Date:

Investigate and use the formulas for area and perimeter of rectangles.

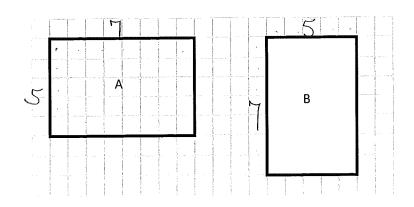
8/28/13

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3.A.12

Name ____

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



2. Determine the perimeter and area of each rectangle.

a.

7 cm 3 cm

4 cm

P=2(4+9)=26cm A=449=36sqcm

3. Determine the perimeter of each rectangle.

a.

149 m

76 m

P=2/149+46m = 450 m

b.

(210cm) 2 m 10 cm

3.A.14

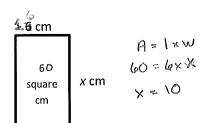
P =	25	Sem	or
	2m	55	c.Vo

am 55cm engage^{ny}

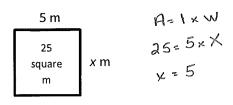
Given the rectangle's area, find the unknown side length.

* Note error on 4a. should be 60 Square cm

a.



b.



x = 10 cm

x= 5m

- 5. Given the rectangle's perimeter, find the unknown side length. * Wete 5 and 6 involve divisor so we use later in module after
 - a. P = 180 cm

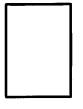
40 cm

b. P = 1,000 m

division is introduced.

P= 21+2w 180=80+2W 100=2W

180



2L=40+40=80

x cm

x mP=2L+2W 150 m 1,000 = 2L + 300 1,000

x= 50cm

100 -2 = 50

x= 350 m 700 - 2 = 350 2w= 150+150 = 300

- 6. Each of the following rectangles has whole number side lengths. Given the area and perimeter, find the 30+2=15 length and width. 24:22-12
 - a. A = 32 square cm

P = 24 cm

b. A = 36 square m

P = 30 m

P=2(1+W) 15 = 1+W

P= 2(1+w)

P=24:2 i

8 cm

32 square cm

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square

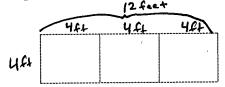
15=12+3

COMMON **CORE**

Lesson 1: Date:

Investigate and use the formulas for area and perimeter of rectangles.

- 1. A rectangular porch is 4 feet wide. It is 3 times as long as it is wide.
 - a. Label the diagram with the dimensions of the porch.

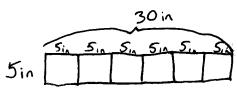


b. Find the perimeter of the porch.

perimeter of the porch.

$$P = 2 \times (1 + \omega)$$
 $P = 32$ feet
 $P = 2 \times (4 + 12)$
 $= 2 \times 16$ $= 32$ $= 32$

- 2. A narrow rectangular banner is 5 inches wide. It is 6 times as long as it is wide.
 - a. Draw a diagram of the banner and label its dimensions.



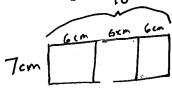
b. Find the perimeter and area of the banner.

$$P=2(1+w)$$
 $P=70i$
= $2(30+5)$
= $2(35)$ $\frac{35}{+35}$
= 70 $\frac{10}{10}$

- 3. The area of a rectangle is 42 square centimeters. Its length is 7 centimeters.
 - a. What is the width of the rectangle?

Ith of the rectangle?
$$A = 1 \times \omega$$
 $42 = 7 \times \omega$
 $42 = 7 \times \omega$
 $42 = 7 \times \omega$

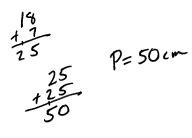
- width = 6 cm
- b. Charlie wants to draw a second rectangle that is the same length but is 3 times as wide. Draw and label Charlie's second rectangle.



c. What is the perimeter of Charlie's second rectangle?

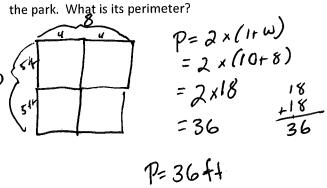
$$P = 2(1+w)$$

 $P = 2(7+18)$
 $= 2(25)$
 $= 50$



b. Draw and label a diagram of the sandbox at

- 4. The area of Betsy's rectangular sandbox is 20 square feet. The longer side measures 5 feet. The sandbox at the park is twice as long and twice as wide as Betsy's.
 - a. Draw and label a diagram of Betsy's sandbox. What is its perimeter?



Lesson 2: Date:

Solve multiplicative comparison word problems by applying the area and perimeter formulas. 8/28/13

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c. What is the relationship between the two perimeters?

d. Find the area of the park's sandbox using the formula $A = I \times w$.

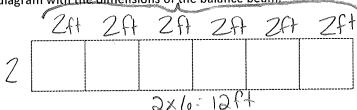
e. The sandbox at the park has an area that is how many times that of Betsy's sandbox?

f. Compare the way the perimeter changed with the way the area changed between the two sandboxes. Explain what you notice using words, pictures, or numbers.

	Data	
Name	Date	
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1. A balance beam at a playground is 2 feet wide. It is 6 times as long as it is wide.

a. Label the diagram with the dimensions of the balance beam.



b. Find the perimeter of the balance beam.

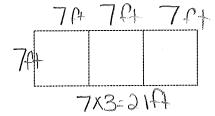
$$P = 2x(1+w)$$
 $P = 28$ feet
 $P = 2x(2+12)$
 $= 2x/4$ $= 28$

- - a. Draw a diagram of the blanket and label its dimensions.

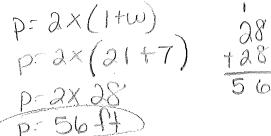
b. Find the perimeter and area of the blanket.

Date _

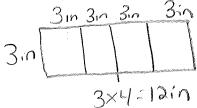
- 1. A rectangular pool is 7 feet wide. It is 3 times as long as it is wide.
 - a. Label the diagram with the dimensions of the pool.



b. Find the perimeter of the pool.

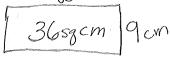


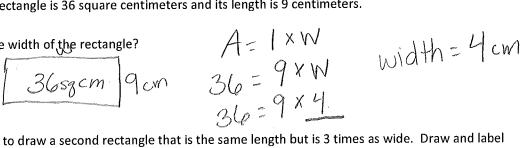
- A rectangular bumper sticker is 3 inches long. It is 4 times as wide as it is long.
 - a. Draw a diagram of the bumper sticker and label its dimensions.



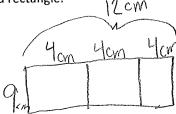
b. Find the perimeter and area of the bumper sticker.

- 3. The area of a rectangle is 36 square centimeters and its length is 9 centimeters.
 - a. What is the width of the rectangle?

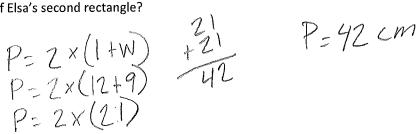




b. Elsa wants to draw a second rectangle that is the same length but is 3 times as wide. Draw and label Elsa's second rectangle.



c. What is the perimeter of Elsa's second rectangle?

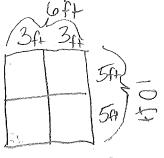




- 4. The area of Nathan's bedroom rug is 15 square feet. The longer side measures 5 feet. His living room rug is twice as long and twice as wide as the bedroom rug.
 - a. Draw and label a diagram of Nathan's bedroom rug. What is its perimeter?



b. Draw and label a diagram of Nathan's living room rug. What is its perimeter?



 $P = 2 \times (1+w)$ = 2 \times (10+3)
= 2 \times (13)



Lesson 2: Date:

Solve multiplicative comparison word problems by applying the area and perimeter formulas.

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3.A.29

- What is the relationship between the two perimeters? The rug in Nathan's Livingrown has a perimeter of 26th, which is 2 times as large as Northan's bedroom.
- d. Find the area of the living room rug using the formula $A = I \times w$.

e. The living room rug has an area that is how many times that of the bedroom rug?

Wosaft is 4 times greater than 15saft (bedroom) (living room)

f. Compare the way the perimeter changed with the way the area changed between the two rugs. Explain what you notice using words, pictures, or numbers.

The perimeter of the living rugisdouble the size the perimeter of the bedroom. The area of the hung room is for times the orgof the bedroom. When the lengths, and widths are doubled, the perimeter doubles, but the area quadruples'