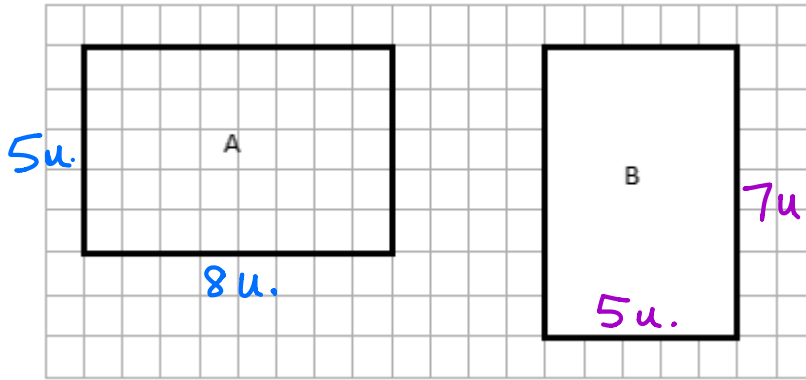


Name _____

Date _____

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



$$A = l \times w$$

$$= 8 \times 5$$

$$= 40 \text{ sq. u.}$$

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

$$= 2 \times (8 + 5)$$

$$= 2 \times 13$$

$$= 26 \text{ units}$$

a. $A = \underline{40 \text{ square units}}$

b. $P = \underline{26 \text{ units}}$

$$A = l \times w$$

$$= 5 \times 7$$

$$= 35 \text{ sq. u.}$$

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

$$= 2 \times (5 + 7)$$

$$= 2 \times 12$$

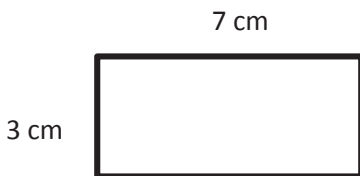
$$= 24 \text{ u.}$$

$A = \underline{35 \text{ square units}}$

$P = \underline{24 \text{ units}}$

2. Determine the perimeter and area of each rectangle.

a.



$P = \underline{20 \text{ units}}$

$A = \underline{21 \text{ square units}}$

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

$$= 2 \times (7 + 3)$$

$$= 2 \times 10$$

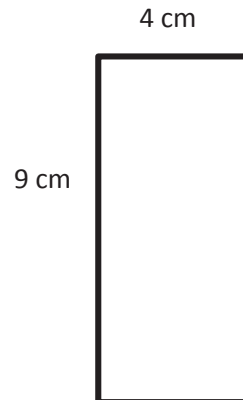
$$= 20 \text{ u.}$$

$$A = l \times w$$

$$= 7 \times 3$$

$$= 21 \text{ sq. u.}$$

b.



$P = \underline{26 \text{ units}}$

$A = \underline{36 \text{ square units}}$

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

$$= 2 \times (4 + 9)$$

$$= 2 \times 13$$

$$= 26 \text{ units}$$

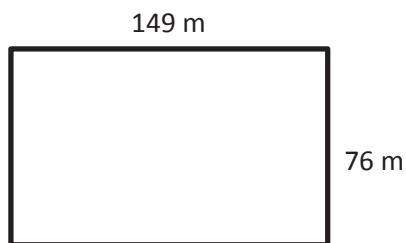
$$A = l \times w$$

$$= 4 \times 9$$

$$= 36 \text{ sq. u.}$$

3. Determine the perimeter of each rectangle.

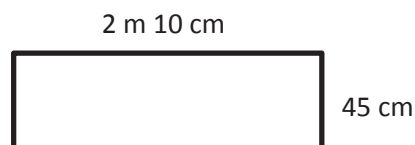
a.



$$P = \underline{450 \text{ meters}} \quad \checkmark$$

$$\begin{aligned} P &= 2 \times (l + w) \\ &= 2 \times (149 + 76) \\ &= 2 \times 225 \\ &= 450 \text{ u.} \end{aligned}$$

b.

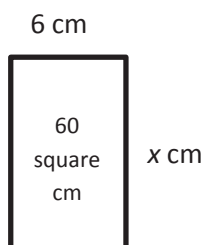


$$P = \underline{570 \text{ centimeters}}$$

$$\begin{aligned} P &= 2 \times (l + w) \\ &= 2 \times (210 + 45) \\ &= 2 \times 255 \\ &= 510 \text{ u.} \end{aligned}$$

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

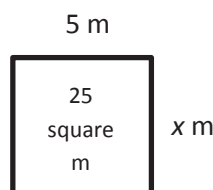
a.



$$x = \underline{10 \text{ cm}}$$

$$\begin{aligned} A &= l \times w \\ 60 &= 6 \times x \\ x &= 10 \text{ cm} \end{aligned}$$

b.

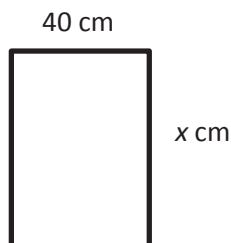


$$x = \underline{5 \text{ m}}$$

$$\begin{aligned} A &= l \times w \\ 25 &= 5 \times x \\ x &= 5 \text{ m} \end{aligned}$$

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

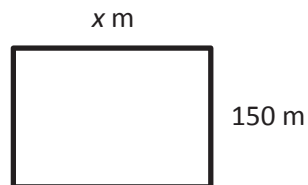
a. $P = 180$ cm



$$x = \underline{50 \text{ cm}}$$

$$\begin{aligned} P &= 2 \times (l + w) \\ 180 &= 2 \times (40 + w) \\ 40 + w &= 90 \\ w &= 50 \end{aligned}$$

b. $P = 1,000$ m



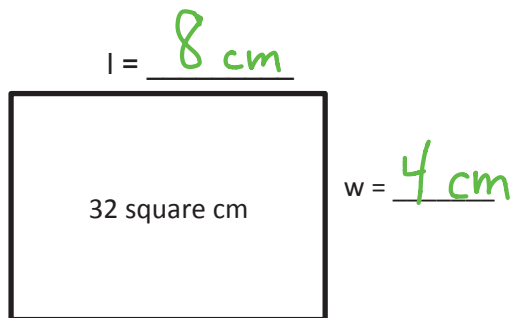
$$x = \underline{350 \text{ m}}$$

$$\begin{aligned} P &= 2 \times (l + w) \\ 1000 &= 2 \times (x + 150) \\ x + 150 &= 500 \\ x &= 350 \end{aligned}$$

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

a. $A = 32$ square cm

$P = 24$ cm



b. $A = 36$ square m

$P = 30$ m

