

RECTANGLES – find missing side length given perimeter using formula $p = 2L + 2W$ OR $p = 2(L + W)$

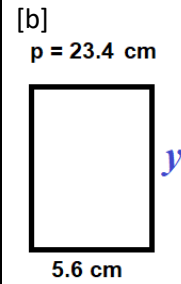
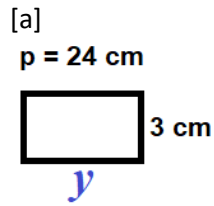
<http://www.learnersgrid.com>

Use formula " $p = 2L + 2W$ " or " $p = 2(L + W)$ " to give the length of missing side given perimeter of each rectangle to the right.

Show all your working and lay your working as shown in the "Worked Solutions Videos" in each Practice Set.

Be sure to include the appropriate units of measurement for each of your answers.

You may use a calculator to help you.

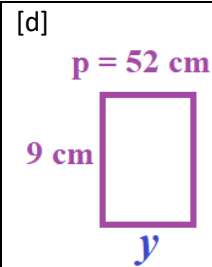
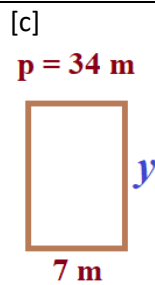


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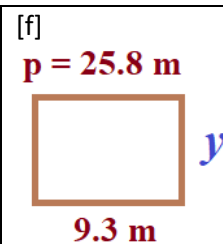
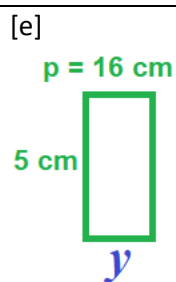


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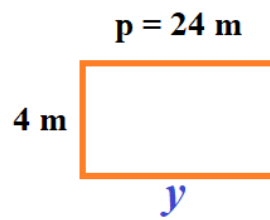
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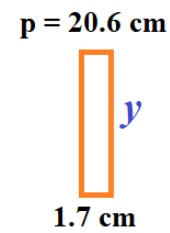
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[g]



[h]



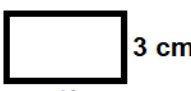
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Solutions

Use formula " $p = 2L + 2W$ " or " $p = 2(L + W)$ " to give the length of missing side given perimeter of each rectangle to the right.
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[a] $p = 24 \text{ cm}$



$$p = 2(L + W)$$

$$24 = 2(y + 3)$$

$$24 = 2y + 6$$


$$-6 \quad -6$$

$$\frac{18}{2} = \frac{2y}{2}$$

$$9 = y$$

$y = 9 \text{ cm}$

[b] $p = 23.4 \text{ cm}$



$$p = 2(L + W)$$

$$23.4 = 2(y + 5.6)$$

$$23.4 = 2y + 11.2$$

$$-11.2 \quad -11.2$$

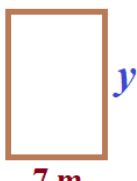
$$\frac{12.2}{2} = \frac{2y}{2}$$

$$6.1 = y$$

$y = 6.1 \text{ cm}$

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[c] $p = 34 \text{ m}$



$$p = 2(L + W)$$

$$34 = 2(y + 7)$$

$$34 = 2y + 14$$


$$-14 \quad -14$$

$$\frac{20}{2} = \frac{2y}{2}$$

$$10 = y$$

$y = 10 \text{ m}$

[d] $p = 52 \text{ cm}$



$$p = 2(L + W)$$

$$52 = 2(9 + y)$$

$$52 = 18 + 2y$$

$$-18 \quad -18$$


$$\frac{34}{2} = \frac{2y}{2}$$

$$17 = y$$

$y = 17 \text{ cm}$

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[e] $p = 16 \text{ cm}$



$$p = 2(L + W)$$

$$16 = 2(5 + y)$$

$$16 = 10 + 2y$$


$$-10 \quad -10$$

$$\frac{6}{2} = \frac{2y}{2}$$

$$3 = y$$

$y = 3 \text{ cm}$

[f] $p = 25.8 \text{ m}$



$$p = 2(L + W)$$

$$25.8 = 2(9.3 + y)$$

$$25.8 = 18.6 + 2y$$

$$-18.6 \quad -18.6$$

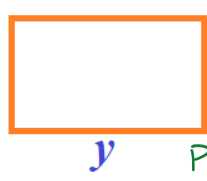
$$\frac{7.2}{2} = \frac{2y}{2}$$

$$3.6 = y$$

$y = 3.6 \text{ m}$

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[g] $p = 24 \text{ m}$



$$p = 2(L + W)$$

$$24 = 2(y + 4)$$

$$24 = 2y + 8$$


$$-8 \quad -8$$

$$\frac{16}{2} = \frac{2y}{2}$$

$$8 = y$$

$y = 8 \text{ m}$

[h] $p = 20.6 \text{ cm}$



$$p = 2(L + W)$$

$$20.6 = 2(y + 1.7)$$

$$20.6 = 2y + 3.4$$

$$-3.4 \quad -3.4$$

$$\frac{17.2}{2} = \frac{2y}{2}$$

$$8.6 = y$$

$y = 8.6 \text{ cm}$