

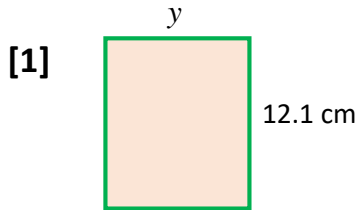
Perimeter (rectangles): Use perimeter to find missing side length

<http://www.learnersgrid.com>

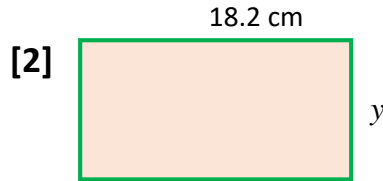
Date:

Name:

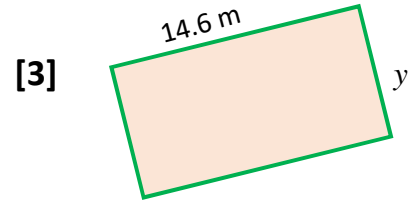
Use formulae, " $P = 2(L + w)$ " or " $P = 2L + 2W$ ", and the given perimeter of each rectangle to calculate the missing side length - and show ALL YOUR WORKING! Round to 1 d.p. **You should use your calculator!**



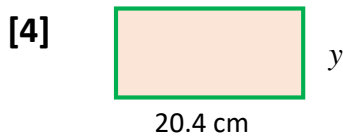
length of $y = ?$
perimeter = 40.4 cm



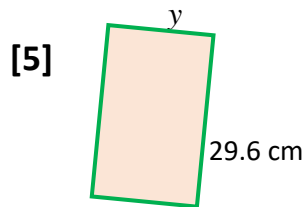
length of $y = ?$
perimeter = 60.8 cm



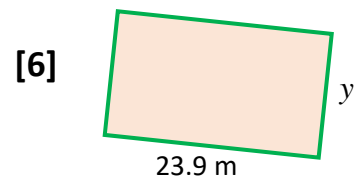
length of $y = ?$
perimeter = 48.4 m



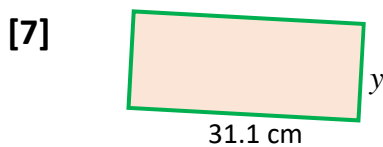
length of $y = ?$
perimeter = 93.6 cm



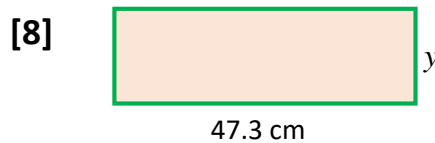
length of $y = ?$
perimeter = 108.4 cm



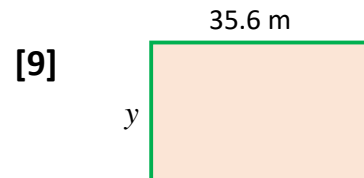
length of $y = ?$
perimeter = 91.6 m



length of $y = ?$
perimeter = 104.4 cm



length of $y = ?$
perimeter = 165.2 cm



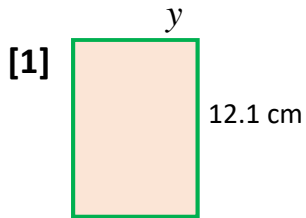
length of $y = ?$
perimeter = 136.4 m

ANSWERS

Perimeter (rectangles): Use perimeter to find missing side length

<http://www.learnersgrid.com>

Use formulae, " $P = 2(L + w)$ " or " $P = 2L + 2W$ ", and the given perimeter of each rectangle to calculate the missing side length - and show ALL YOUR WORKING! Round to 1 d.p. You should use your calculator!



side y length = 8.1 cm

Worked Solution:

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

$$40.4 = 2(12.1 + y)$$

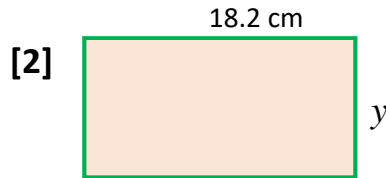
$$- 24.2 \quad 40.4 = 24.2 + 2y \quad - 24.2$$

$$16.2 = 2y$$

$$16.2/2 = 2y/2 \quad 8.1$$

$$8.1 = y$$

$y = 8.1 \text{ cm}$



side y length = 12.2 cm

Worked Solution:

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

$$60.8 = 2(18.2 + y)$$

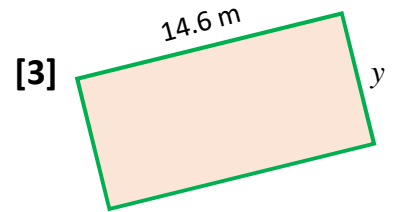
$$- 36.4 \quad 60.8 = 36.4 + 2y \quad - 36.4$$

$$24.4 = 2y$$

$$24.4/2 = 2y/2 \quad 12.2$$

$$12.2 = y$$

$y = 12.2 \text{ cm}$



side y length = 9.6 m

Worked Solution:

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

$$48.4 = 2(14.6 + y)$$

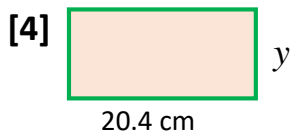
$$- 29.2 \quad 48.4 = 29.2 + 2y \quad - 29.2$$

$$19.2 = 2y$$

$$19.2/2 = 2y/2 \quad 9.6$$

$$9.6 = y$$

$y = 9.6 \text{ m}$



side length = 26.4 cm

Worked Solution:

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

$$93.6 = 2(20.4 + y)$$

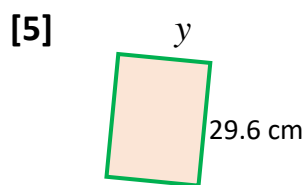
$$- 52.8 \quad 93.6 = 40.8 + 2y \quad - 52.8$$

$$52.8 = 2y$$

$$52.8/2 = 2y/2 \quad 26.4$$

$$26.4 = y$$

$y = 26.4 \text{ cm}$



side length = 24.6 cm

Worked Solution:

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

$$108.4 = 2(29.6 + y)$$

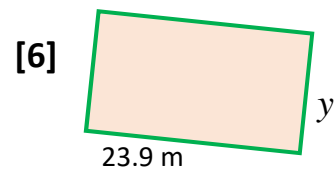
$$- 59.2 \quad 108.4 = 59.2 + 2y \quad - 59.2$$

$$49.2 = 2y$$

$$49.2/2 = 2y/2 \quad 24.6$$

$$24.6 = y$$

$y = 24.6 \text{ cm}$



side length = 21.9 m

Worked Solution:

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

$$91.6 = 2(23.9 + y)$$

$$- 47.8 \quad 91.6 = 47.8 + 2y \quad - 47.8$$

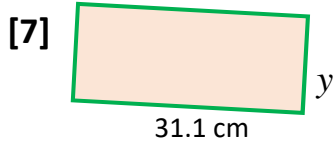
$$43.8 = 2y$$

$$43.8/2 = 2y/2 \quad 21.9$$

$$21.9 = y$$

$y = 21.9 \text{ m}$

ANSWERS (page 2)



side length = 21.1 cm

Worked Solution:

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

$$104.4 = 2(31.1 + y)$$

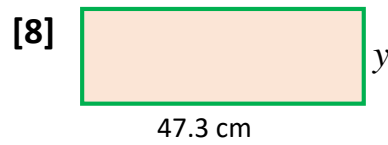
$$- 62.2 \quad 104.4 = 62.2 + 2y \quad - 62.2$$

$$42.2 = 2y$$

$$42.2/2 = 2y/2 \quad 21.1$$

$$21.1 = y$$

$$y = 21.1 \text{ cm}$$



side length = 35.3 cm

Worked Solution:

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

$$165.2 = 2(47.3 + y)$$

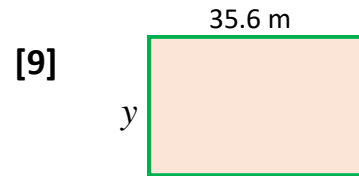
$$- 94.6 \quad 165.2 = 94.6 + 2y \quad - 94.6$$

$$70.6 = 2y$$

$$70.6/2 = 2y/2 \quad 35.3$$

$$35.3 = y$$

$$y = 35.3 \text{ cm}$$



side length = 32.6 m

Worked Solution:

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

$$136.4 = 2(35.6 + y)$$

$$- 71.2 \quad 136.4 = 71.2 + 2y \quad - 71.2$$

$$65.2 = 2y$$

$$65.2/2 = 2y/2 \quad 32.6$$

$$32.6 = y$$

$$y = 32.6 \text{ m}$$