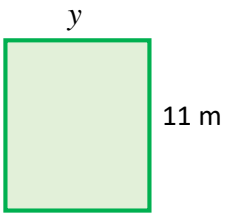
Perimeter (rectangles): Use perimeter to find missing side length

Date: **Name:**

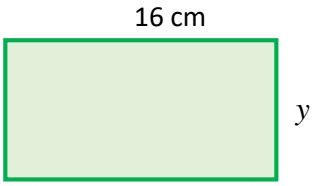
Use formulae, "P = 2(L + w)" or "P = 2L + 2W", and the given perimeter of each rectangle to calcuate the missing side length - and show ALL YOUR WORKING! Round to 1 d.p. You should use your calculator!

[1]



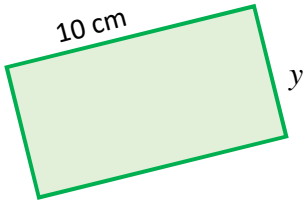
length of y = ?
perimeter = 34 m

[2]



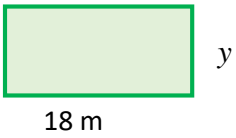
length of y = ?
perimeter = 52 cm

[3]



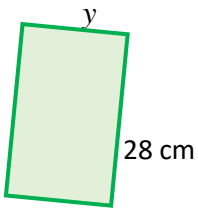
length of y = ?
perimeter = 34 cm

[4]



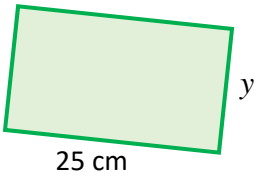
length of y = ?
perimeter = 80 m

[5]



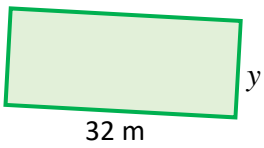
length of y = ?
perimeter = 102 cm

[6]



length of y = ?
perimeter = 90 cm

[7]

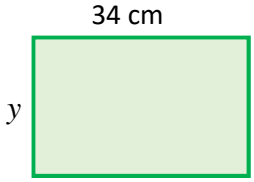


length of y = ?
perimeter = 108 m

[8]

length of y = ?
perimeter = 166 cm

[9]



length of y = ?
perimeter = 132 cm

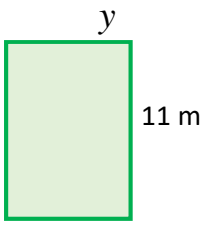
ANSWERS

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 calcuate the missing side length - and show ALL YOUR WORKING! Round to 1 d.p. You should use your calculator!

[1]



side y length = 6 m

Worked Solution:

P = 2(L + W)

34 = 2(11 + y)

- 22 **34 = 22 + 2y** - 22

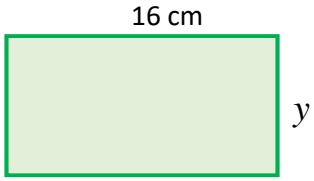
12 = 2y

12/2 = 2y/2 6.0

6 = y

y = 6 m

[2]



side y length = 10 cm

Worked Solution:

P = 2(L + W)

52 = 2(16 + y)

- 32 **52 = 32 + 2y** - 32

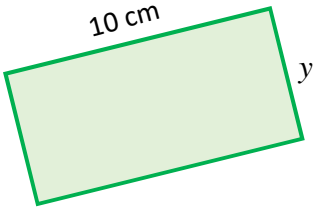
20 = 2y

20/2 = 2y/2 10.0

y = 10

y = 10 cm

[3]



side y length = 7 cm

Worked Solution:

P = 2(L + W)

34 = 2(10 + y)

- 20 **34 = 20 + 2y** - 20

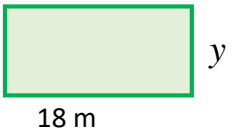
14 = 2y

14/2 = 2y/2 7.0

7 = y

y = 7 cm

[4]



side length = 22 m

Worked Solution:

P = 2(L + W)

80 = 2(18 + y)

- 44 **80 = 36 + 2y** - 44

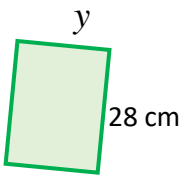
44 = 2y

44/2 = 2y/2 22.0

22 = y

y = 22 m

[5]



side length = 23 cm

Worked Solution:

P = 2(L + W)

102 = 2(28 + y)

- 56 **102 = 56 + 2y** - 56

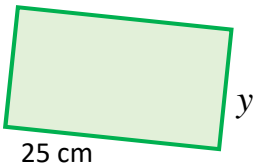
46 = 2y

46/2 = 2y/2 23.0

23 = y

y = 23 cm

[6]



side length = 20 cm

Worked Solution:

P = 2(L + W)

90 = 2(25 + y)

- 50 **90 = 50 + 2y** - 50

40 = 2y

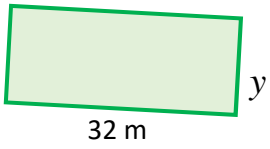
40/2 = 2y/2 20.0

20 = y

y = 20 cm

ANSWERS (page 2)

[7]



side length = 22 m

Worked Solution:

P = 2(L + W)

108 = 2(32 + y)

- 64 **108 = 64 + 2y** - 64

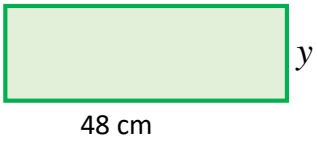
44 = 2y

44/2 = 2y/2 22.0

22 = y

y = 22 m

[8]



side length = 35 cm

Worked Solution:

P = 2(L + W)

166 = 2(48 + y)

- 96 **166 = 96 + 2y** - 96

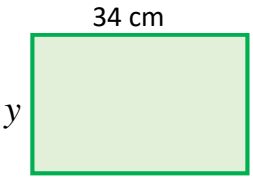
70 = 2y

70/2 = 2y/2 35.0

35 = y

y = 35 cm

[9]



side length = 32 cm

Worked Solution:

P = 2(L + W)

132 = 2(34 + y)

- 68 **132 = 68 + 2y** - 68

64 = 2y

64/2 = 2y/2 32.0

32 = y

y = 32 cm