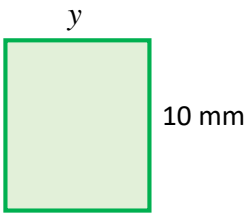
Perimeter (rectangles): Use perimeter to find missing side length

Date: **Name:**

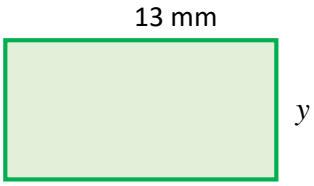
Use formulae, "P = 2(L + w)" or "P = 2L + 2W", and the given perimeter of each rectangle to calcuate the missing side length - and show ALL YOUR WORKING! Round to 1 d.p. You should use your calculator!

[1]



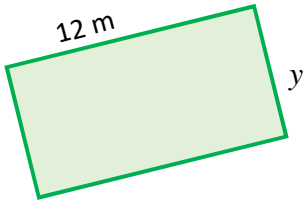
length of y = ?
perimeter = 32 mm

[2]



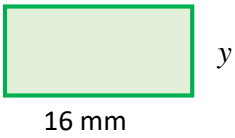
length of y = ?
perimeter = 46 mm

[3]



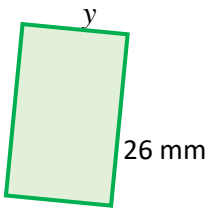
length of y = ?
perimeter = 38 m

[4]



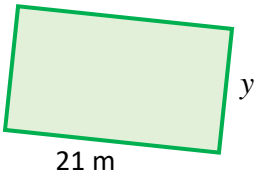
length of y = ?
perimeter = 72 mm

[5]



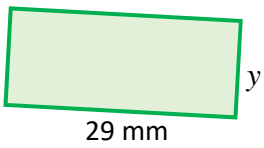
length of y = ?
perimeter = 94 mm

[6]



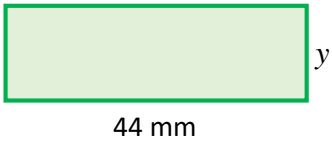
length of y = ?
perimeter = 78 m

[7]



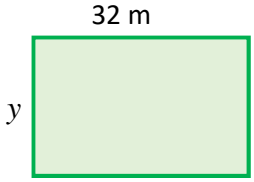
length of y = ?
perimeter = 96 mm

[8]



length of y = ?
perimeter = 152 mm

[9]



length of y = ?
perimeter = 122 m

ANSWERS

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http://www.learnersgrid.com

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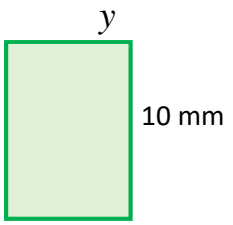
[1]



side y length = 6 mm

Worked Solution:

P = 2(L + W)

32 = 2(10 + y)

- 20 **32 = 20 + 2y** - 20

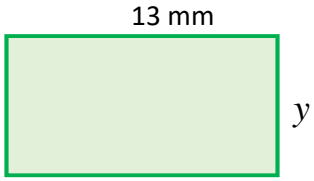
12 = 2y

12/2 = 2y/2 6.0

6 = y

y = 6 mm

[2]



side y length = 10 mm

Worked Solution:

P = 2(L + W)

46 = 2(13 + y)

- 26 **46 = 26 + 2y** - 26

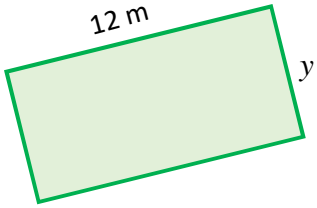
20 = 2y

20/2 = 2y/2 10.0

10 = y

y = 10 mm

[3]



side y length = 7 m

Worked Solution:

P = 2(L + W)

38 = 2(12 + y)

- 24 **38 = 24 + 2y** - 24

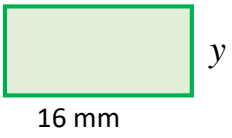
14 = 2y

14/2 = 2y/2 7.0

7 = y

y = 7 m

[4]



side length = 20 mm

Worked Solution:

P = 2(L + W)

72 = 2(16 + y)

- 40 **72 = 32 + 2y** - 40

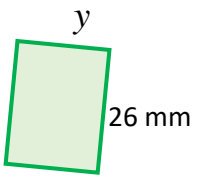
40 = 2y

40/2 = 2y/2 20.0

20 = y

y = 20 mm

[5]



side length = 21 mm

Worked Solution:

P = 2(L + W)

94 = 2(26 + y)

- 52 **94 = 52 + 2y** - 52

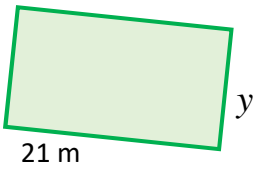
42 = 2y

42/2 = 2y/2 21.0

21 = y

y = 21 mm

[6]



side length = 18 m

Worked Solution:

P = 2(L + W)

78 = 2(21 + y)

- 42 **78 = 42 + 2y** - 42

36 = 2y

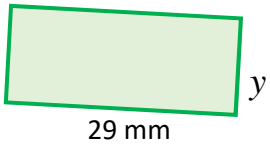
36/2 = 2y/2 18.0

18 = y

y = 18 m

ANSWERS (page 2)

[7]



side length = 19 mm

Worked Solution:

P = 2(L + W)

96 = 2(29 + y)

- 58 **96 = 58 + 2y** - 58

38 = 2y

38/2 = 2y/2 19.0

19 = y

y = 19 mm

[8]

side length = 32 mm

Worked Solution:

P = 2(L + W)

152 = 2(44 + y)

- 88 **152 = 88 + 2y** - 88

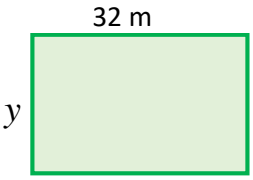
64 = 2y

64/2 = 2y/2 32.0

32 = y

y = 32 mm

[9]



side length = 29 m

Worked Solution:

P = 2(L + W)

122 = 2(32 + y)

- 64 **122 = 64 + 2y** - 64

58 = 2y

58/2 = 2y/2 29.0

29 = y

y = 29 m