

CHALLENGE

5

Here is a rectangle.

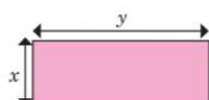
x and y are both integers.

The rectangle has a perimeter of 28 cm.

a) Write an equation to represent the perimeter of the rectangle.

b) List all the possible pairs of values for x and y .

Compare answers with a partner. How do you know you have found all the possible values?



1a. Katya is finding possible values for a and b .

$$2a + b = 18$$



If a equals 7,
 b must equal 5.

Is Katya correct? Explain your answer.



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2a. If a is an odd number and b is 2, which of these could be true?

A. $2a + 2b = 14$

B. $a \times b = 9$

C. $2a \times b = 12$

D. $a + 2b = 9$

Convince me.



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3a. Pizza 2 Go sells 2 medium pizzas and one small pizza for £16. What possible prices can you find for each pizza?

$$2m + s = £16$$

m	s



PS