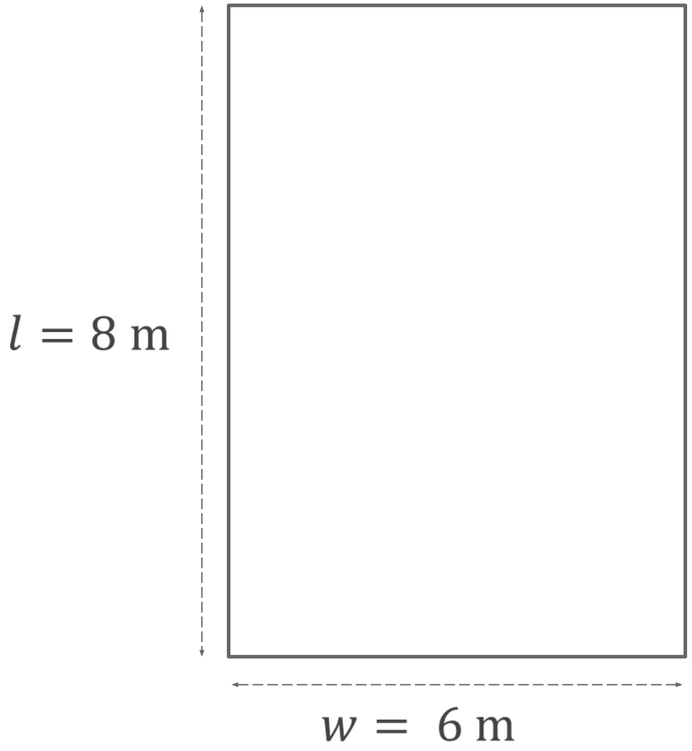
Mathematics

Exploring rectangles
Lesson 4 of 8

Miss Kidd-Rossiter

Try this

Describe how the area of the rectangle **changes** if ...



The width increases by 1 m

The length increases by 1 m

Both increase by 1 m

Replace 1m with a different measure and repeat.

What do you notice?

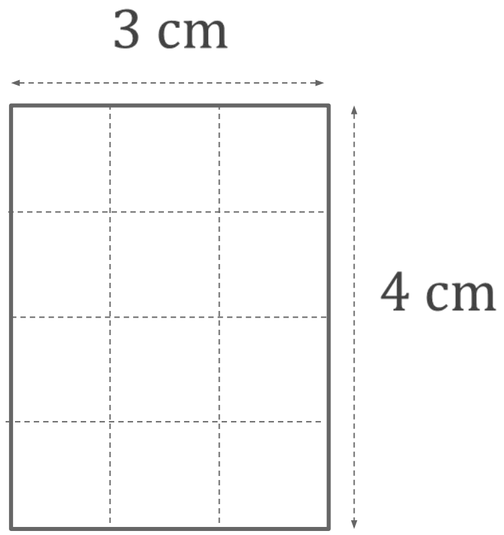
How does the perimeter change?

Connect

How would you find the area of this rectangle?

Binh

Draw other rectangles with the **same area**.

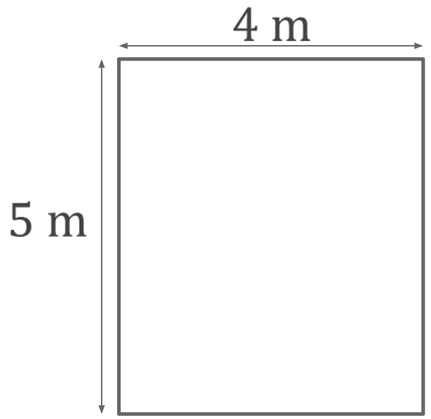


Independent task

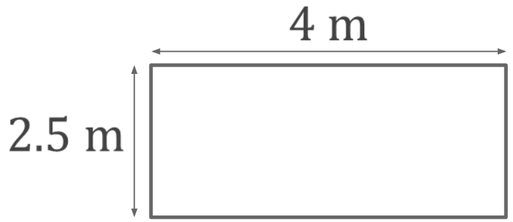
1. Draw four different rectangles with an area of $6\ \text{units}^2$

Independent task

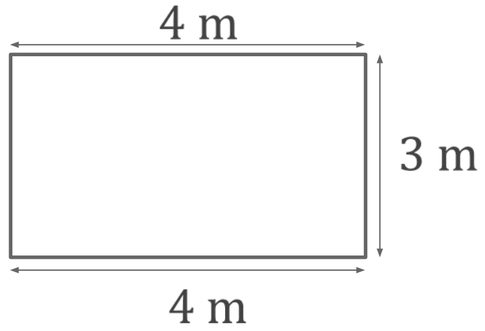
2. Find the area of the following rectangles:



A = _____



A = _____



A = _____

[Not to scale]

Explore

Are these statements **always** true, **sometimes** true or **never** true?

Can you draw some examples for each?

For any rectangle there is another with the same area but with a greater perimeter.

For any rectangle there is another with the same perimeter but with a smaller area.