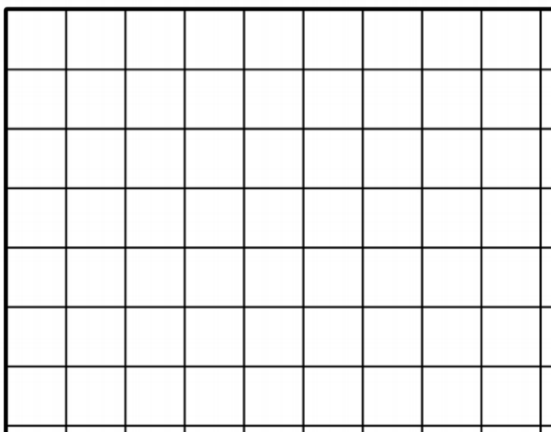


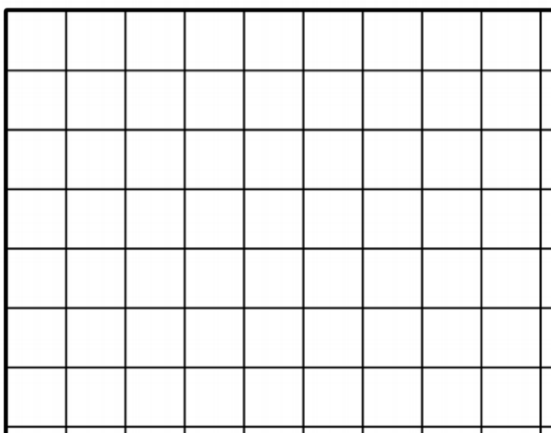
### Quiz 4.3 - Exploring Rectangles with Equal Perimeters

1. Draw all possible rectangles with each perimeter.

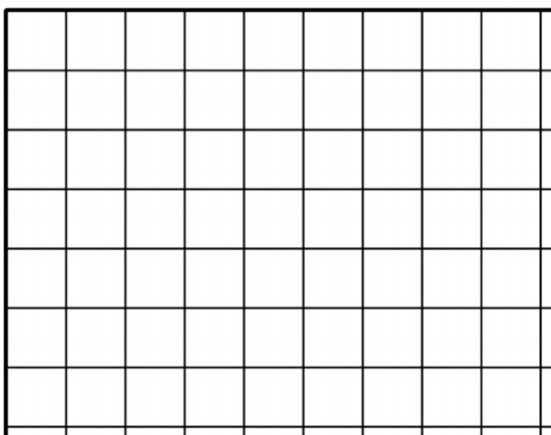
**a)** 14 cm



**b)** 8 cm



**c)** 18 cm

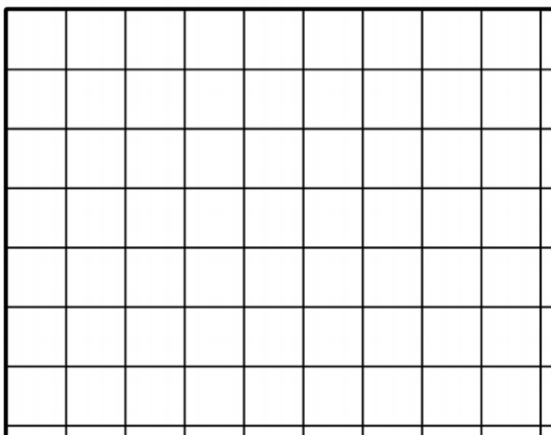


2. Draw 2 different rectangles with each perimeter – the rectangle with the least area and the rectangle with the greatest area.

Find the area of each rectangle.

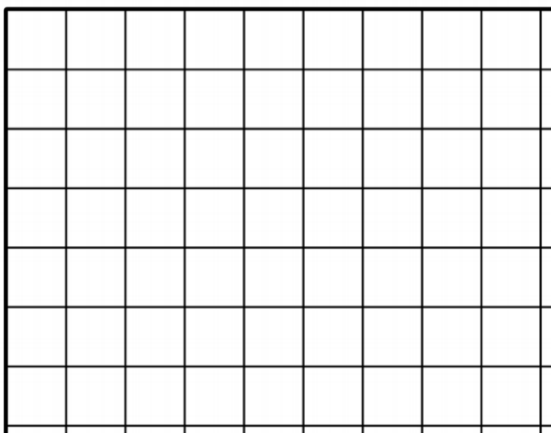
**a)** Perimeter = 16 cm

Area = \_\_\_\_\_cm<sup>2</sup>



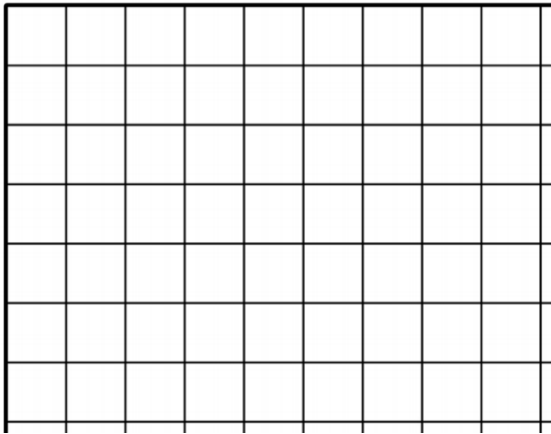
**b)** 20 cm

Area = \_\_\_\_\_cm<sup>2</sup>

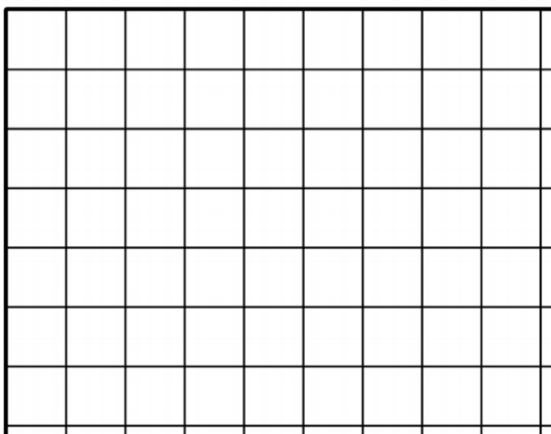


**3.** Draw a rectangle with each perimeter and area.

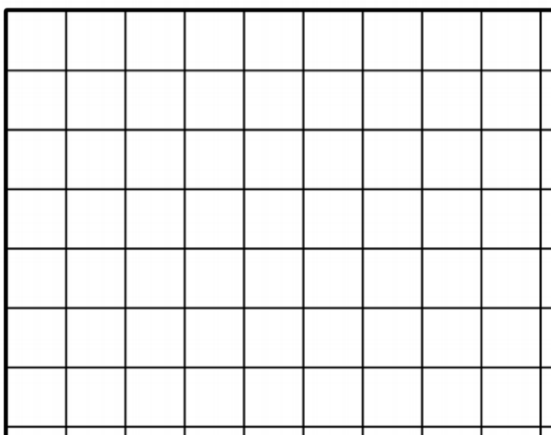
**a)** perimeter 24 cm and area 32 cm<sup>2</sup>



**b)** perimeter 22 cm and area 18 cm<sup>2</sup>



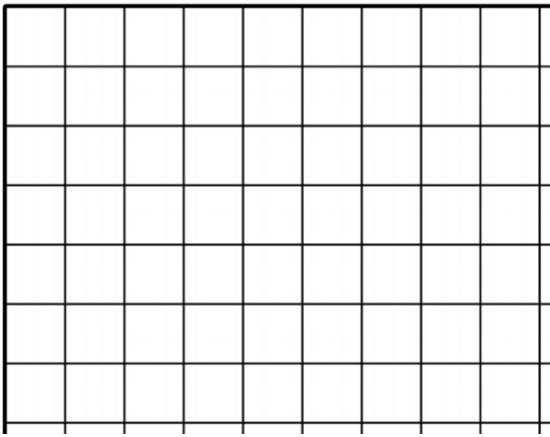
**c)** perimeter 22 cm and area 28 cm<sup>2</sup>



4. Anju has 48 m of fencing to put around his garden.

- a) List all the possible lengths and widths of Anju's garden.
- b) Which dimensions will Anju choose if he wants the garden with the greatest possible area?
- c) Which dimensions will Anju choose if he wants the garden with the least possible area?

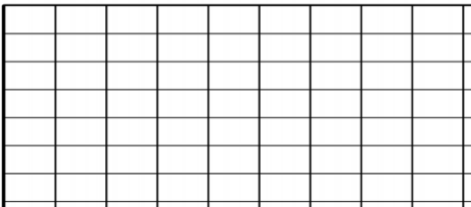
5. a) Use 1-cm grid paper. Draw a rectangle 12 cm long and 8 cm wide.



c) What is the perimeter of the rectangle? \_\_\_\_\_ cm

What is the area of the rectangle? \_\_\_\_\_ cm<sup>2</sup>

6. a) Draw a rectangle with the same perimeter but greater area than the rectangle you drew in question 5.



b) Draw a rectangle with the same perimeter but lesser area.

