



# Rectangles with the Same Perimeter

Let's explore rectangles with the same perimeter.

Warm-up

## Number Talk: Multiply to Divide

Find the value of each expression mentally.

- $5 \times 5$

- $10 \times 5$

- $2 \times 5$

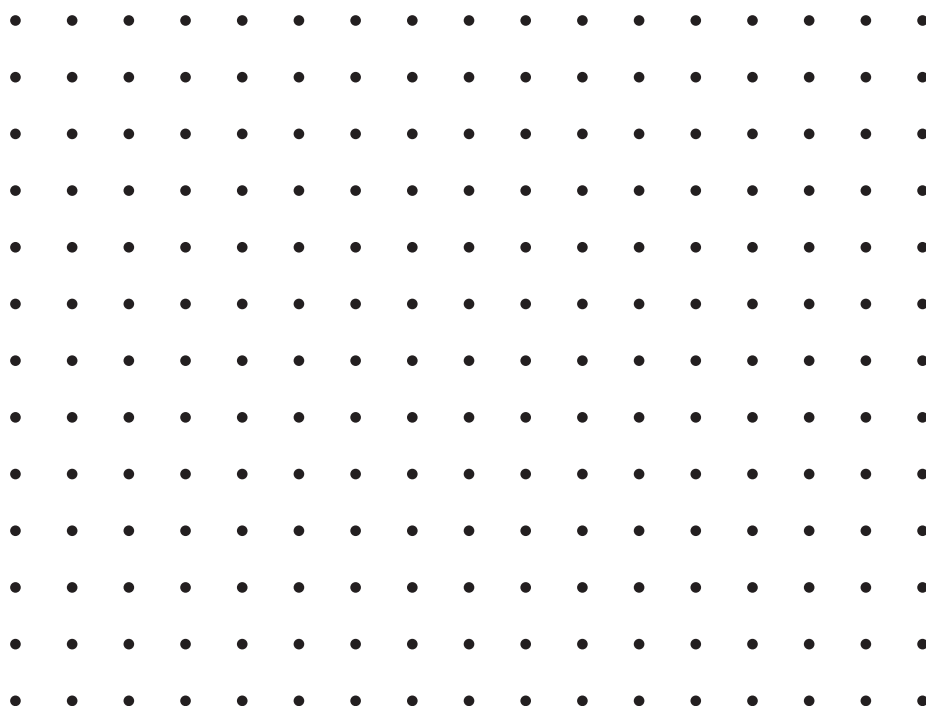
- $85 \div 5$



## Activity 1

### Perimeter of 16 Units

1. Draw as many different rectangles with a perimeter of 16 units as you can.
2. Calculate the area of each rectangle you draw. Explain or show your reasoning.



## Activity 2

### Same Perimeter, Different Area

Your teacher will give you some dot paper for drawing rectangles.

1. Draw 2 rectangles that each have the given perimeter but different areas.
  - a. 12 units
  - b. 20 units
  - c. 26 units
  - d. 34 units
  - e. Choose your own perimeter.
2. Cut out 1 or 2 rectangles you want to share and put them on the appropriate poster. Try to look for rectangles that are different from what other groups have already placed.
3. Gallery Walk: As you visit the posters with your partner, discuss something you notice and something you wonder.