Unit 7, Lesson 11

Rectangles with the Same Perimeter

Let's explore rectangles with the same perimeter.

Warm-up

Number Talk: Multiply to Divide

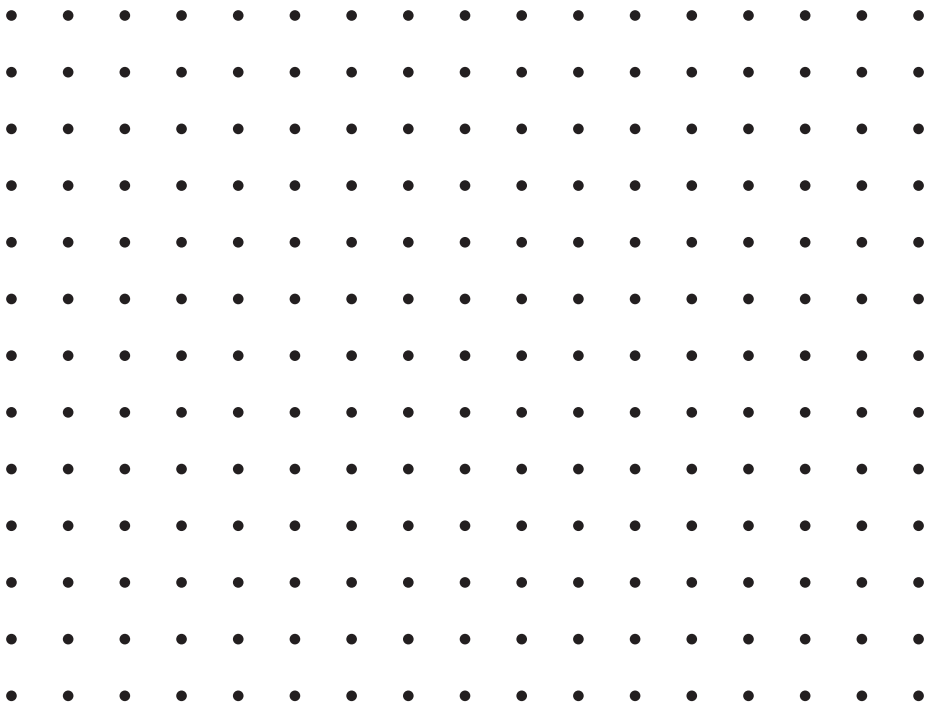
Find the value of each expression mentally.

- 5×5
- 10×5
- 2×5
- $85 \div 5$

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.