# Lesson 12: Rectangles with the Same Area

• Let's explore rectangles with the same area.

## Warm-up: Number Talk: Divide in Parts

Find the value of each expression mentally.

• 40 ÷ 4

- 60 ÷ 4
- 80 ÷ 4
- 96 ÷ 4

#### 12.1: Area of 24

- 1. Draw as many different rectangles as you can with an area of 24 square units.
- 2. Find the perimeter of each rectangle you draw. Explain or show your reasoning.

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٠	•	٠	٠	٠	٠	٠	٠	٠	٠	٠	•	٠	٠	٠	٠	٠
٠	•	•	•	•	•	٠	٠	٠	٠	٠	•	٠	٠	٠	٠	•
٠	•	•	•	•	٠	•	•	•	•	•	•	•	•	•	•	٠
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### 12.2: Same Area, Different Perimeter

Your teacher will give you some paper for drawing rectangles.

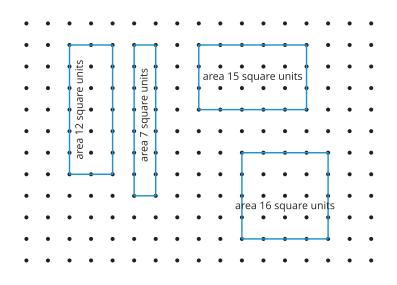
- 1. For each of the following areas, draw 2 rectangles with that area but different perimeters.
  - a. 12 square units
  - b. 20 square units
  - c. 42 square units
  - d. 48 square units
  - e. Choose your own area.
- 2. Cut out the rectangles you want to share and place them on the appropriate poster. Try to look for rectangles that are different from what other groups have already placed.
- 3. Gallery Walk: As you visit the posters, discuss something you notice and something you wonder.

#### **Section Summary**

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In this section, we drew rectangles with the same perimeter and different areas. We also drew rectangles with the same area and different perimeters.

rectangles with a perimeter of 16 units



rectangles with an area of 24 square units

