

# Lesson 10: Solve Area Problems

- Let's solve area problems.

## Warm-up: Number Talk: One More Group

Find the value of each expression mentally.

- $5 \times 2$

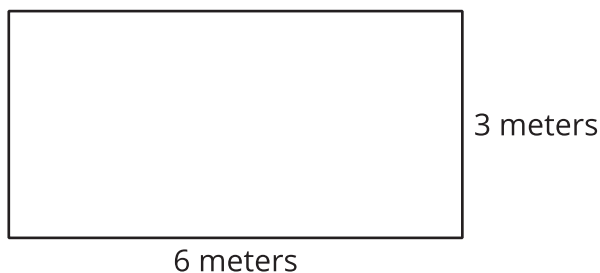
- $6 \times 2$

- $5 \times 6$

- $6 \times 6$

## 10.1: Paint a Wall

Noah is painting a wall in a community garden. The wall is shaped like a rectangle. A diagram of the wall is shown here.



Paint is sold in 3 different sizes:

- A small container will cover 3 square meters.
- A medium container will cover 10 square meters.
- A large container will cover 40 square meters.

What should Noah buy? Explain your reasoning.

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## 10.2: Create a Garden



1. Elena is planning how to use her rectangular space in the community garden. She needs a space that is at least 20 square feet to fit her plants. She has enough soil for a garden that is 30 square feet. The space she has available has to be 3 feet on one side.

What are the possible sizes for her garden?

Create a poster to show your thinking. Organize it so it can be followed by others.

2. As you look at the posters with your group:

- a. Describe how another group solved the problem in a different way than your group did.

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- b. Write three things you saw that helped you understand how other students solved the problem.

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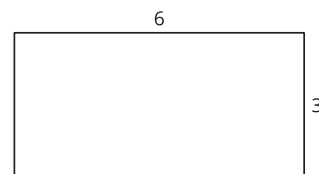
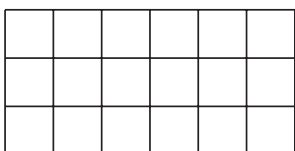


## Section Summary

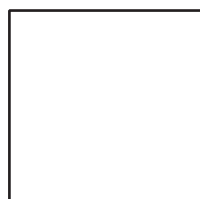
### Section Summary

In this section, we learned how area is related to multiplication. We multiplied the side lengths of a rectangle to find its area.

$$6 \times 3 = 18$$



We also learned about how different square units are useful for measuring area in different situations and solved problems involving area.



square inch



square meter