Solve Area Problems

Let's solve area problems.

Warm-up

Number Talk: One More Group

Find the value of each expression mentally.

- 5×2
- 6×2
- 5×6
- 6×6

Activity 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.



Activity 2

Create a Garden



1. Elena is planning to build a raised garden bed for the community garden. The garden bed will be rectangular. One side must be 3 feet long. To fit all her plants, Elena needs the bed to cover at least 20 square feet. She has enough soil for a garden bed that covers 30 square feet.

   What are some possible sizes for the garden bed?

Create a poster to show your thinking. Organize your poster 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, using a different way than your group did.

   b. Write 3 things you saw that helped you understand how other groups solved the problem.