Unit 6, Lesson 23

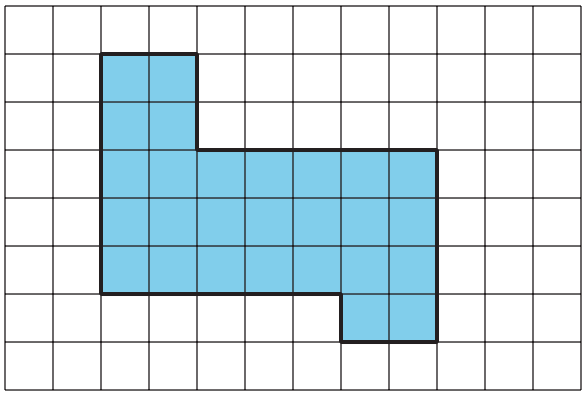
Problems about Perimeter and Area

Let's solve situations involving perimeter and area.

Warm-up

How Many Do You See: Shaded Squares

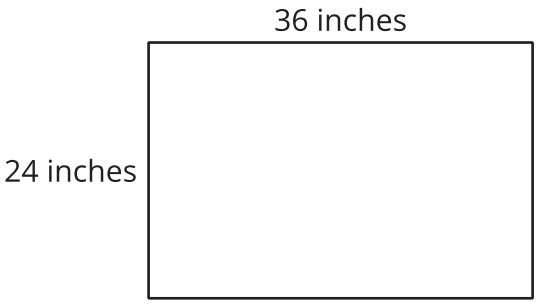
How many shaded squares do you see? How do you see them?



Activity 1

Create a Class Banner

Jada's teacher buys a poster paper that measures 36 inches by 24 inches. Her plan is to cut it into pieces, rearrange them, and tape them back together to create a welcome banner that is 8 inches tall and 8 feet long.



1. Does she have enough paper to make the banner? Explain or show your reasoning.

2. What is the area of the poster paper?

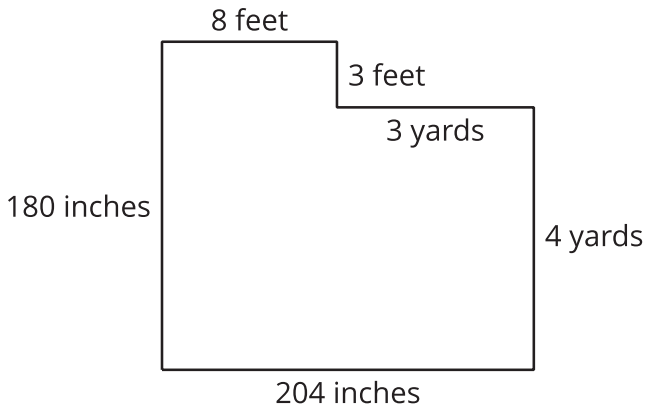
Activity 2

Replace the Classroom Carpet

A classroom orders new carpet and baseboards. Tyler and a couple of friends are helping to take measurements.

Here is a sketch of the classroom and the measurements they record.

For each question, show your reasoning.



1. How many feet of baseboard do they need to replace in the classroom? How many inches is that?

2. 1,200 inches of baseboard material was delivered. Is that enough?

3. How many square feet of carpet is needed to cover the floor area?