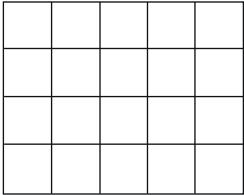


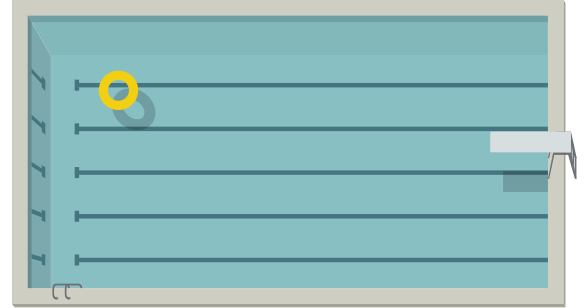
# Everyday Area

**Area** is the measurement of the square units inside a shape. Counting square units is one way to find the area of a shape. This is why we label the units as **square units** or **units<sup>2</sup>**.



One way to calculate the area is by counting the number of square units inside this rectangle.

Area = 20 square units

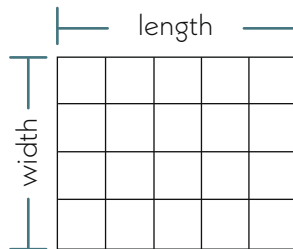


But wait!  
There's a  
faster way  
to calculate  
the area!



... By using the formula for finding the area of a rectangle:

$$\text{Area} = \text{Length} \times \text{Width}$$



Here are the steps!

What is the length? 5

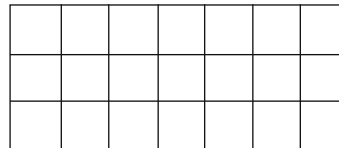
What is the width? 4

Multiply the length  $\times$  width.

Area = 20 square units

## Try It!

Janine is a lifeguard at the community pool. Every night she must cover the pool with a tarp that has the same area as the pool.



What is the length? 7

What is the width? 3

Multiply the length  $\times$  width.

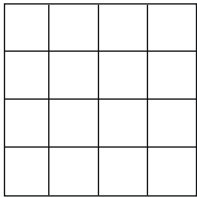
Area = 21 square units<sup>2</sup>



# Everyday Area

Solve the following problems. Use the following conversion: 1 square unit = 1 square foot.

1. Malik built a new sandbox in his backyard. What is the area of the sandbox?

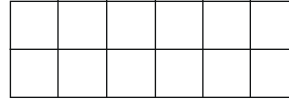


Area: 16 ft<sup>2</sup>

**Challenge!** If one bag of sand will fill an area of 8 square feet, how many bags will Malik need to fill his sandbox?

2 bags

2. Leah wants to earn money by mowing lawns. She starts mowing her neighbor's lawn. What is the area of the lawn?

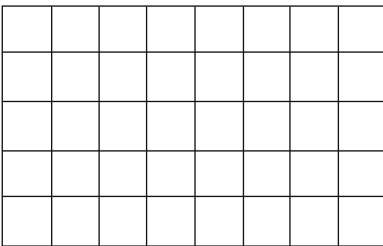


Area: 12 ft<sup>2</sup>

**Challenge!** If Leah charges \$2.00 per square foot, how much money would she earn mowing her neighbor's lawn?

\$24

3. Oren is painting a wall a bright shade of yellow. What is the area of the wall?

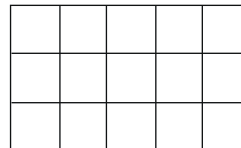


Area: 40 ft<sup>2</sup>

**Challenge!** If one gallon of paint will cover 10 square feet, how many gallons of paint will Oren need?

4 gal

4. Taylor is moving into a new bedroom and she is not sure her bed will fit. What is the area of her new bedroom?

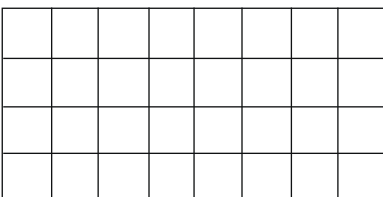


Area: 15 ft<sup>2</sup>

**Challenge!** If Taylor's bed takes up an area of 9 square feet, how many square feet will be left in Taylor's room?

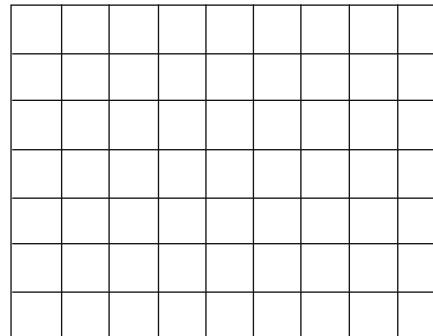
6 ft<sup>2</sup>

5. Pablo hit a baseball and broke a window. Now he has to replace the glass. What is the area of the new glass he will need to buy?



Area: 32 ft<sup>2</sup>

6. Hannah's soccer team is installing artificial turf on their new field, but they are not sure how much turf to buy. What is the area of the soccer field?



Area: 63 ft<sup>2</sup>