

Break-Ground:

What is area?

Two young mathematicians discuss the idea of area.

Check out this dialogue between two calculus students (based on a true story):

Devyn: Riley, I've have a troubling question.

Riley: Yes?

Devyn: What is area?

Riley: Oh, for a rectangle it is just

$$\text{height} \times \text{width}$$

Devyn: Right. But shouldn't it mean more?

Area is a funny thing. What is it really? Well the idea is this:

Define something as having a "unit" area, and see how many times it "covers" something.

The most obvious thing to use for our "unit" area is a unit square. From this we can quickly move on to find the area of any rectangle as

$$\text{height} \times \text{width}$$

Problem 1 *Sometimes area is described as "how much paint will cover a surface." Is this accurate? What do you think?*

Free Response:
