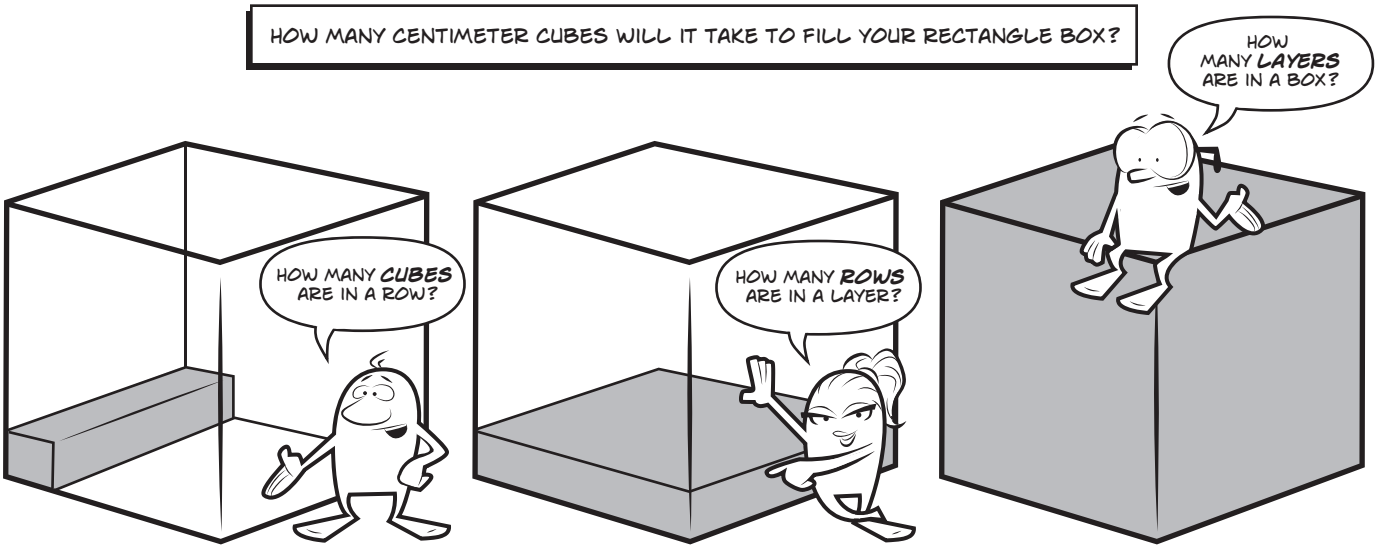
FILLING BOXES

HOW MANY CENTIMETER CUBES WILL IT TAKE TO FILL YOUR RECTANGLE BOX?



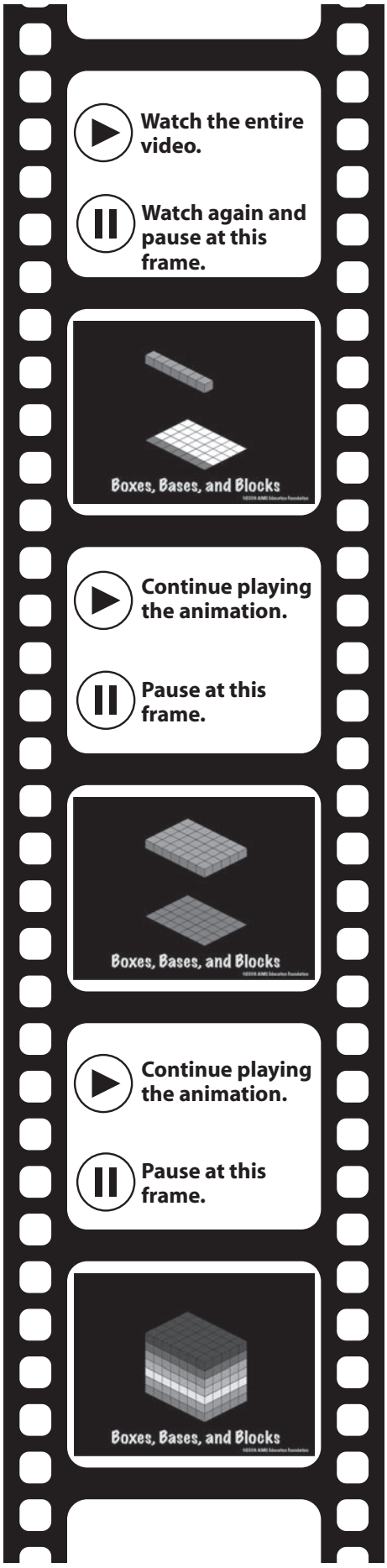
Length _____ cm Width _____ cm Height _____ cm

How do you determine the number of cubes in a layer?

How do you determine the number of layers in a box?

How can you use the number of cubes in a layer and the number of layers in a box to determine the number of cubes in a box?

Write a formula that generalizes how you find the number of cubes in a box.



FILLING BOXES

Boxes, Bases, and Blocks

How does the formula for the volume of a box describe what fills the box?

How many units does it take to cover one row of the base?

What dimension of the rectangular base does this represent?

How many rows does it take to cover the rectangular base?

What does multiplying the number of cubes in a row by the number of rows tell you about the base?

How many layers are in this rectangular solid?

How do you determine the number of cubes in this rectangular solid?

Write a formula that calculates the number of cubes in a rectangular solid and explain how the formula relates to what is seen in the animation.

