



# Chapter 1 | Foundations for Algebra

Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

▶▶▶ Mathematical Modeling in 3 Acts

## Edgy Design

1. What is the first question that comes to mind after watching the video?
2. Write down the main question you will answer about what you saw in the video.
3. Make an initial conjecture that answers this main question.
4. Explain how you arrived at your conjecture.
5. Write numbers of each kind of tile that you know are too small.
6. Write numbers of each kind of tile that you know are too large.



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7. Use the math that you have learned in this chapter to refine your conjecture.

8. Is your refined conjecture between the high and low estimates you made earlier?

9. Did your refined conjecture match the actual answer exactly? If not, what might explain the difference?