



Brick Math Lesson of the Month

June 2023

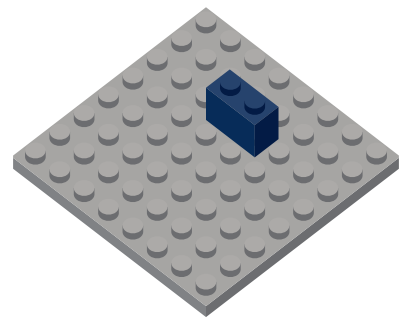
Square Number Concepts

from Counting and Cardinality

Using LEGO® Bricks

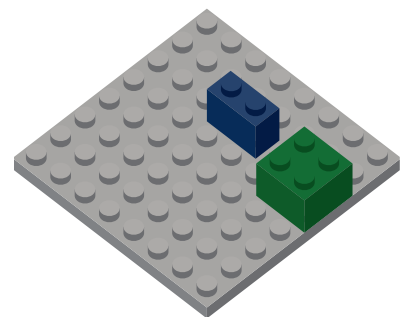
Teacher Lesson Guide

1. Have students build a model of 2 using one 1x2 brick. Walk around and check student models to see how they are approaching this task and to make sure they are using the correct brick. Build a model or have a student show one that he/she has built.

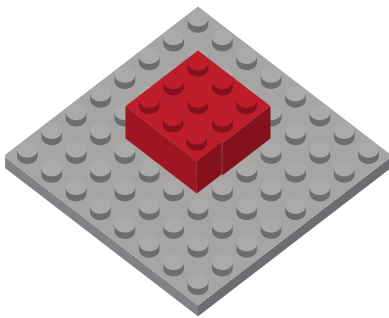


Ask students to describe the shape they see. Students should say that the shape is a rectangle.

2. Ask students to build another model by taking two more 1x2 bricks and placing them together on the baseplate. Ask students what number this represents. Students should answer: the number 4.



Ask students to compare this model to the 1x2 brick that models the number 2. Students should answer that this model has two more studs, or note that it looks like a square. Have students draw the model and write a description.



3. Tell students they are going to build another model that forms a square. Ask students to build a model of 9 using three 1x3 bricks. Walk around and investigate how students are approaching this task. Ask students questions individually to guide them, such as:

- How are you thinking about the number 9?
- Is 9 an odd number or an even number?
- Are there any ways to model 9 other than what you have created?

Ask students how this model is like the model for 4 that they built. Students should answer that this model is also in the shape of a square.

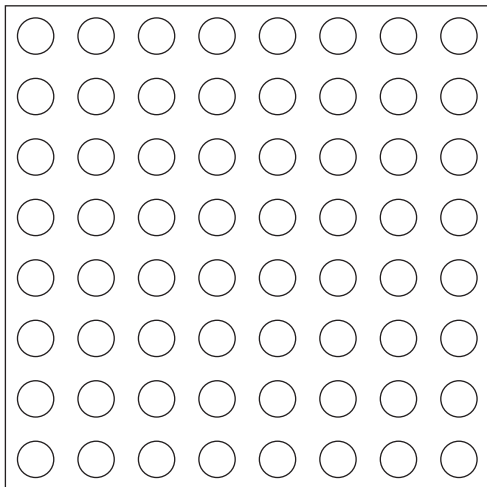
Have students draw their models and write a description.



Square Number Concepts

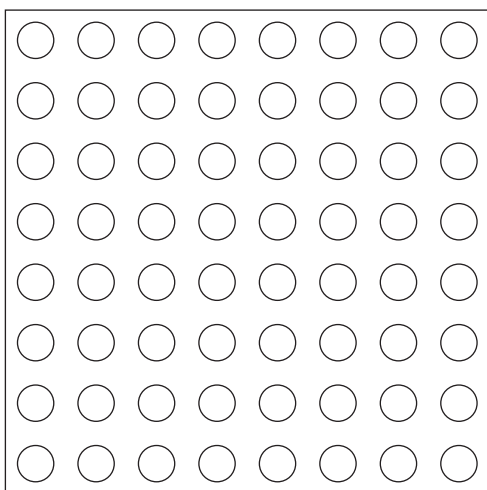
from Counting and Cardinality Using LEGO® Bricks
Student Workshop Pages

1. Build a model of two using one 1x2 brick. Draw your model.



Describe the shape of the model. _____

2. Place two 1x2 bricks side by side. Draw your model.



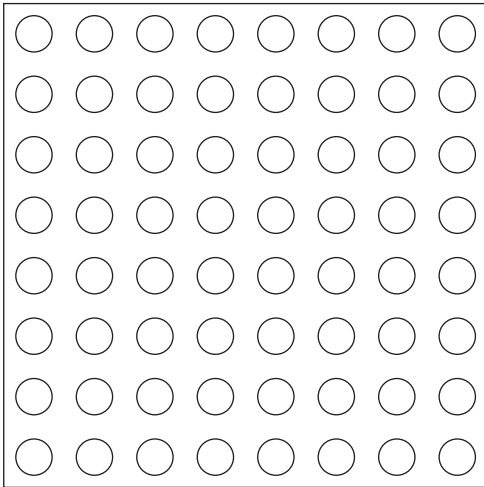
What shape is this model? _____

What number does it represent? _____

How is it different from the model that you built in number 1?



3. Build a model of 9 using three 1x3 bricks. Draw your model.



What shape is this model? _____

How does this model compare to the model that you built in number 2 ?

