July 2021 Brick Math Lesson of the Month

Division Basics
from
Division Using LEGO® Bricks
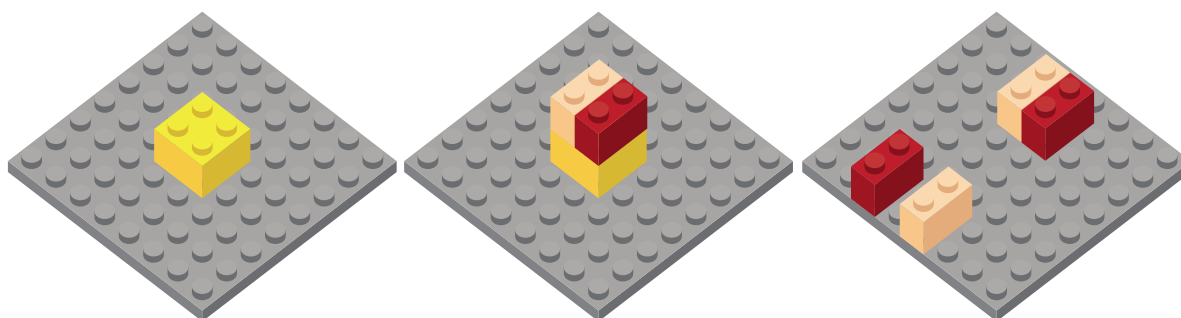
Teacher Lesson Pages

Part 1: Show Them How

1. Place a 2x2 brick on a base plate. Count the studs (4).

Ask students to find two bricks that can be placed on top of the studs and cover them completely (two 1x2 bricks).

Explain that this model shows that 4 can be divided into 2 sets (the bricks), and each set has 2 studs.

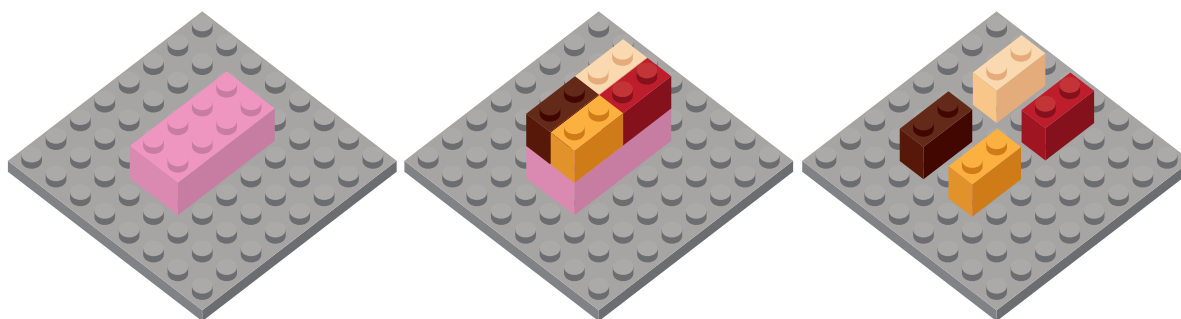Demonstrate how to write a division sentence for this model: $4 \div 2 = 2$.

2. Place a 2x4 brick on a base plate. Count the studs (8).

Ask students to find four bricks that can placed on top of this brick with no studs uncovered (four 1x2 bricks).

Ask students what this model shows about these numbers.

(*Answer*: The model shows the number of sets is 4 and the number in each set is 2.)

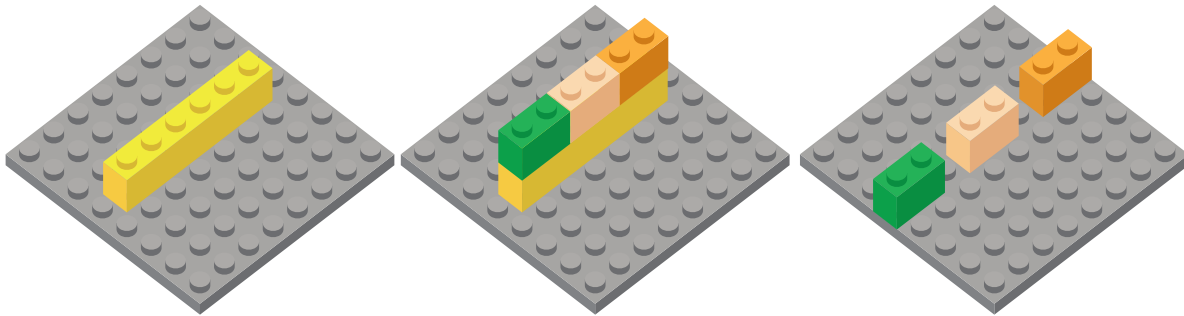Demonstrate how to write a division sentence for this model: $8 \div 4 = 2$.

3. Place a 1x6 brick on a base plate. Count the studs (6).

Ask students to find three bricks that fit on top of this brick with no studs left over (three 1x2 bricks).

Ask students what this model shows. (Answer: 6 divided into 3 sets with 2 in each set.)

Demonstrate how to write a division sentence for this model: 6 ÷ 3 = 2.

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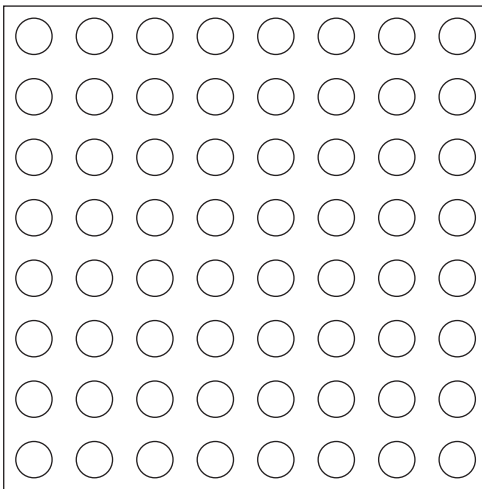# Division Basics
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Student Workbook Pages

1. Place a 2x4 brick on a base plate. Draw your model.

How many studs are on the brick? _____

Locate four same-sized bricks that you can place on top of the 2x4 brick with no stud left uncovered. Place your bricks on top of the 2x4 brick. Which bricks did you use? _____ How many bricks did you use? _____

Write a division sentence for this problem. _____
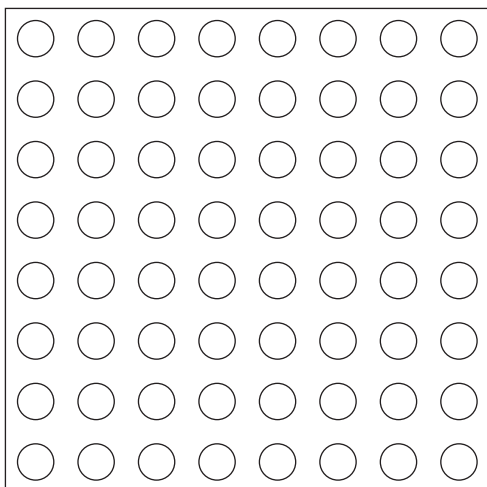
Explain your thinking.

_____
_____
_____

2. Place a 1x6 brick on a base plate. Draw your model.

Find three same-sized bricks that fit on top of the 1x6 brick with no stud left uncovered. Place them on top of the 1x6 brick. Which bricks did you use? _____ How many bricks did you use? _____

Write a division sentence for this problem. _____

Explain your thinking.

_____

_____

_____