## Lesson 15: An Assortment of Fractions

* Let’s find the heights of some stacked objects.

### Warm-up: Which One Doesn't Belong: Halves, Fourths, Sixths, and Eights

Which one doesn't belong?

A

B

C

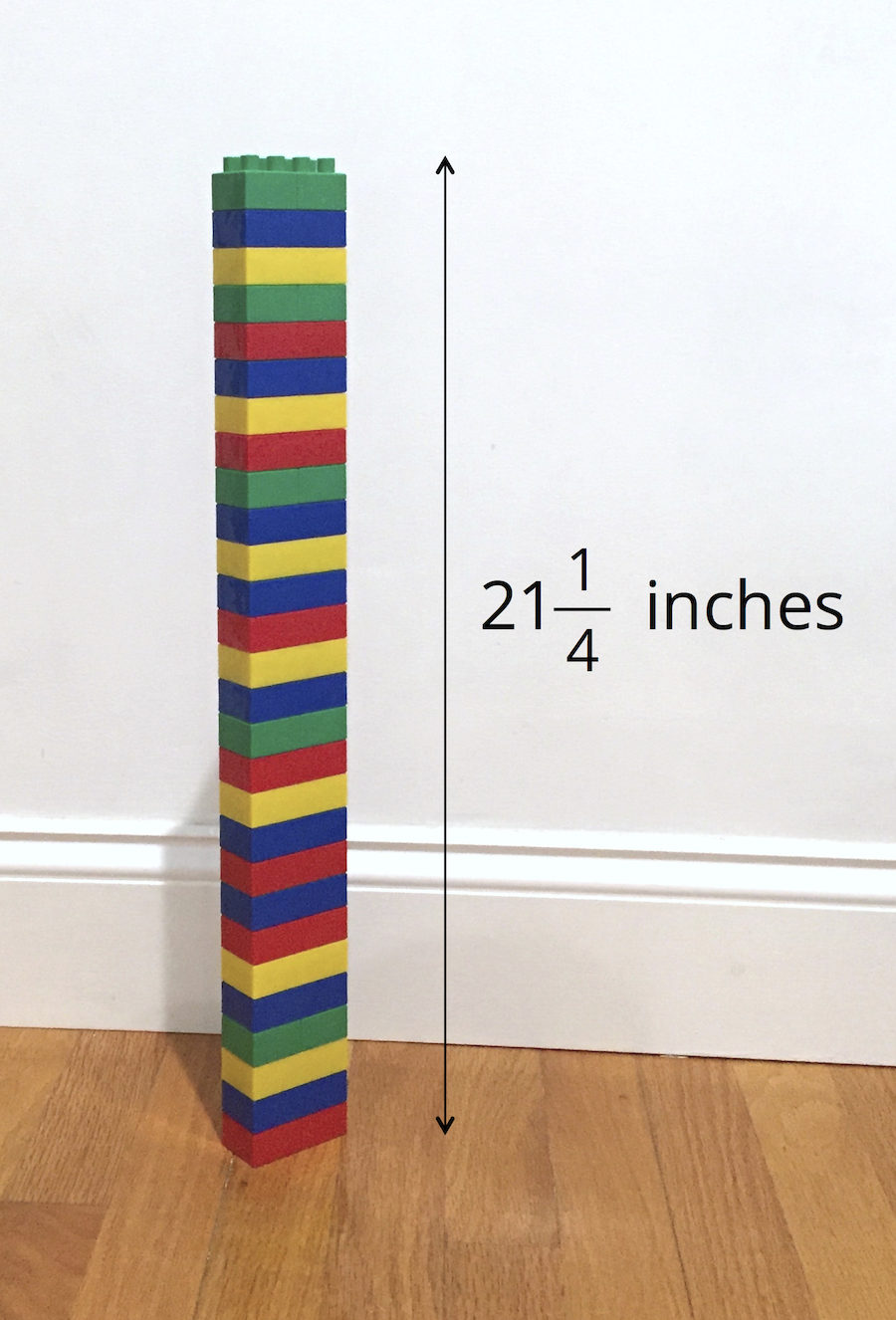
D

### 15.1: All the Way to the Top

Priya, Kiran, and Lin are using large playing bricks to make towers. Here are the heights of their towers so far:

* Priya: inches
* Kiran: inches
* Lin : inches

For each question, show your reasoning.

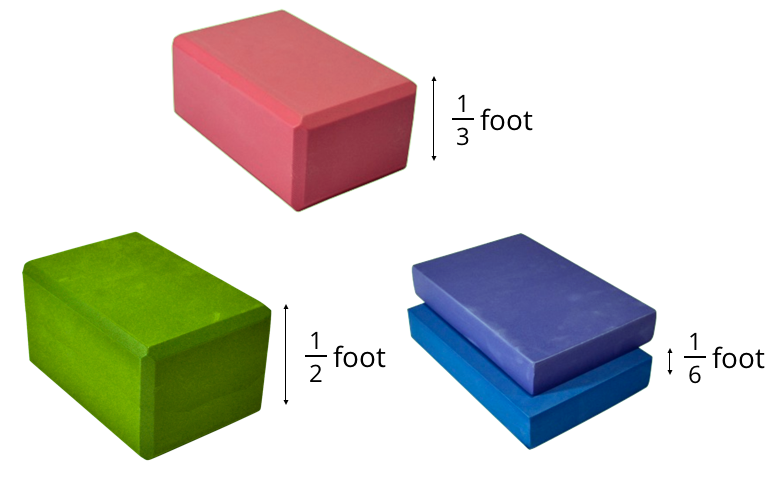


1. How much taller is Lin’s tower compared to:
   1. Priya’s tower?
   2. Kiran’s tower?
2. They are playing in a room that is 109 inches tall. Priya says that if they combine their towers to make a super tall tower, it would be too tall for the room and they’ll have to remove one brick.

* Do you agree with Priya? Explain your reasoning.

### 15.2: Stacks of Blocks

Andre is building a tower out of foam blocks. The blocks come in three different thicknesses: foot, foot, and foot.



1. Andre stacks one block of each size. Will that stack be more than 1 foot tall? Explain or show how you know.
2. Can Andre use only the -foot and -foot blocks to make a stack that is feet tall? If you think so, show one or more ways. If not, explain why not.
3. Can Andre use only the -foot and -foot blocks to make a stack that is feet tall? If so, show one or more ways. If not, explain why not.



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