



# An Assortment of Fractions

Let's find the heights of some stacked objects.

## Warm-up

### Which Three Go Together: Halves, Fourths, Sixths, and Eighths

Which 3 go together?

A

$$1\frac{1}{2}$$

B

$$\frac{4}{4} + \frac{2}{4}$$

C

$$\frac{12}{8}$$

D

$$\frac{4}{6}$$



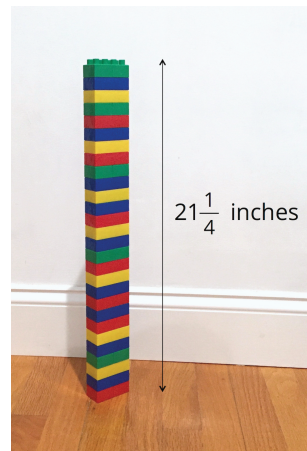
## Activity 1

### All the Way to the Top

Priya, Kiran, and Lin use large playing bricks to make towers. Here are the heights of their towers.

- Priya:  $21\frac{1}{4}$  inches
- Kiran:  $32\frac{3}{8}$  inches
- Lin :  $55\frac{1}{2}$  inches

Show your reasoning for each question.



1. How much taller is Lin's tower compared to:
  - a. Priya's tower?
  - b. 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. She says they must remove 1 brick.

Do you agree with Priya? Explain your reasoning.

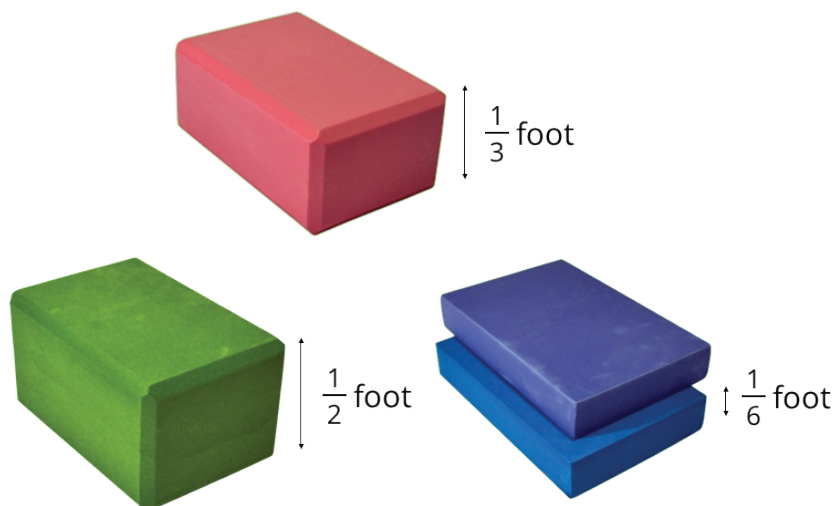
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## Activity 2

### Stacks of Blocks

Andre is building a tower out of foam blocks. The blocks come in three different thicknesses:  $\frac{1}{2}$  foot,  $\frac{1}{3}$  foot, and  $\frac{1}{6}$  foot.



1. Andre stacks 1 block of each size. Is the stack more than 1 foot tall? Explain or show how you know.

2. Can Andre use only the  $\frac{1}{6}$ -foot and  $\frac{1}{3}$ -foot blocks to make a stack that is  $1\frac{1}{2}$  feet tall? If you think so, show one or more ways. If not, explain why not.
3. Can Andre use only the  $\frac{1}{6}$ -foot and  $\frac{1}{2}$ -foot blocks to make a stack that is  $1\frac{1}{3}$  feet tall? If so, show one or more ways. If not, explain why not.

