



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

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



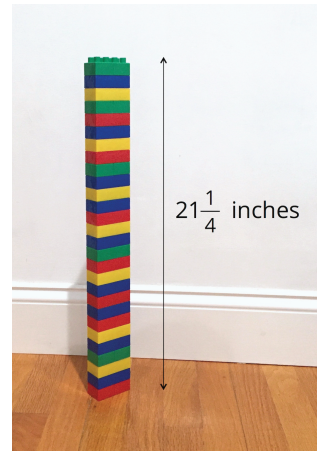
Activity 1

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.



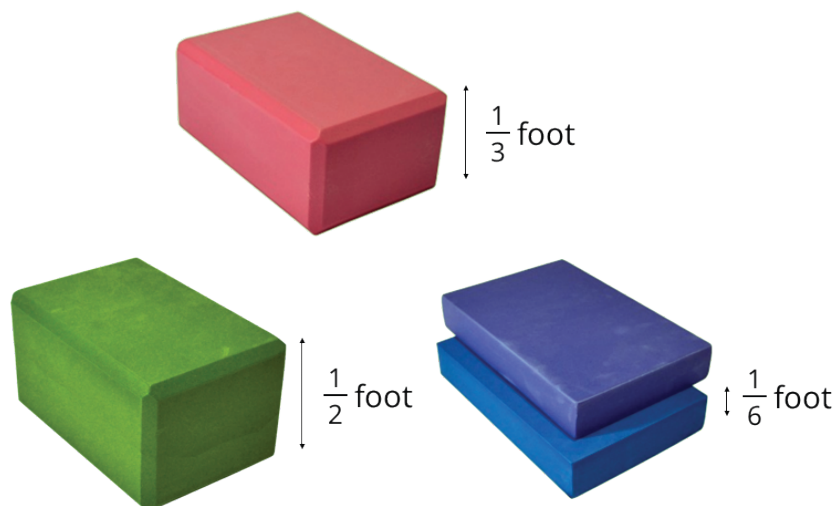
1. How much taller is Lin's tower compared to:
 - a. Priya's tower?
 - b. Kiran's tower?
2. They are playing in a room that is 109 inches tall. Priya says that if they combine their towers to make a super tall tower, it would be too tall for the room. She says they must remove 1 brick.

Do you agree with Priya? Explain your reasoning.

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.