

## Lesson 12: From Unit Cubes to the Formulas for Volume

### Classwork

STATION A

STATION B

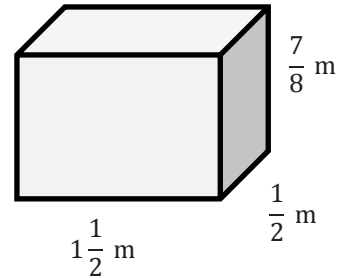
STATION C

STATION D

STATION E

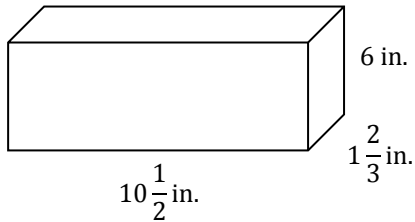
### Problem Set

1. Determine the volume of the rectangular prism.



1. The area of the base of a rectangular prism is  $4\frac{3}{4}$  ft<sup>2</sup>, and the height is  $2\frac{1}{3}$  ft. Determine the volume of the rectangular prism.
2. The length of a rectangular prism is  $3\frac{1}{2}$  times as long as the width. The height is  $\frac{1}{4}$  of the width. The width is 3 cm. Determine the volume.

3.



- a. Write numerical expressions to represent the volume in two different ways, and explain what each reveals.
- b. Determine the volume of the rectangular prism.