Name: _____   Date: _____

Module 5 Study Guide

1. What is the area of a rectangle that measures $\frac{1}{3}$ by $\frac{4}{5}$ meters?

2. Lucy has a rectangular garden bed. She measures it and finds out it is 4 yards long and $\frac{5}{6}$ yard wide.

a. She wants to know how many square yards of landscape fabric for weeds she will need to completely cover the garden bed.
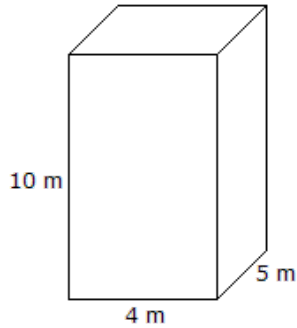**Draw the garden, and label the measurements.**

b. How much landscape fabric will Heather need to cover the garden? **(PS3.LT3)**

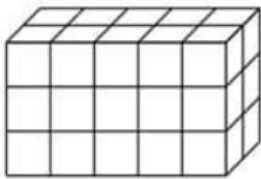3. Find the volume of this right rectangular prism.

10 m

5 m

4 m

4. The volume of a rectangular prism is 840 in^3. If the area of the base is 40 in^2, find its height. Draw and label a model to show your thinking.

5. If the rectangular prism below is made of cubes with 3 cm side lengths, what is its volume? Explain your thinking. (PS5.LT1)

4. Carlos and Diego built towers out of legos. Carlos's tower had a 5-inch by 5-inch square base. Diego's tower had a 4-inch by 4-inch square base. If Carlos's tower had a volume of 200 cubic inches and Diego's had a volume of 144 cubic inches, whose tower was taller?

a. Using the volume of Carlos's tower and area of the base, what is the height of Carlos's tower?

b. Using the volume and area of the base, what is the height of Diego's tower?

c. Whose tower was taller? Explain how you know.

Level 4

1. The structure below is composed of three right rectangular prisms. The top and

bottom prisms each measure $3\frac{1}{3}$ meters by $\frac{1}{3}$ meter by $\frac{1}{5}$ meter. The middle

rectangular prism measures 4 meters by $\frac{1}{4}$ meter by $5\frac{2}{3}$ meters. What is the total

volume of the structure?