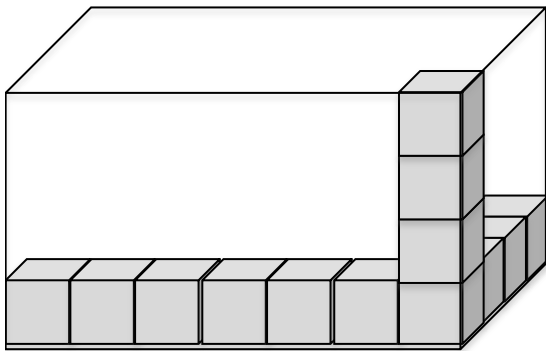


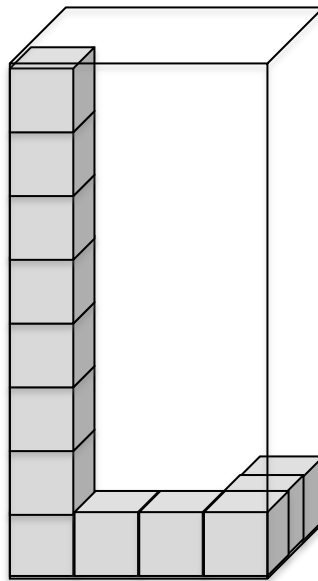
Your Name: \_\_\_\_\_ First Name(s) of Partner(s) \_\_\_\_\_

1) Jamal is trying to determine which shipping box contains the most space. He has a bunch of 1 - inch cubes and starts filling the boxes to determine their volumes. He didn't have time to finish. See if you can count the number of cubes that could fit into each box.

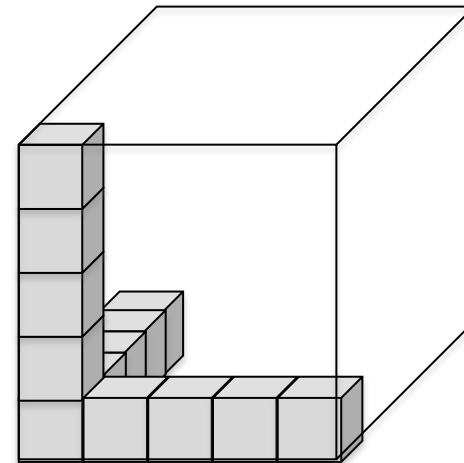
# of Blocks \_\_\_\_\_ # of Blocks \_\_\_\_\_ # of Blocks \_\_\_\_\_



$V = \underline{\hspace{2cm}} \text{ in}^3$



$V = \underline{\hspace{2cm}} \text{ in}^3$



$V = \underline{\hspace{2cm}} \text{ in}^3$



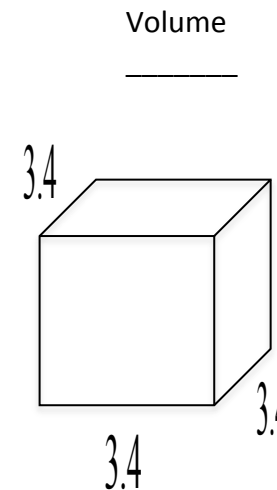
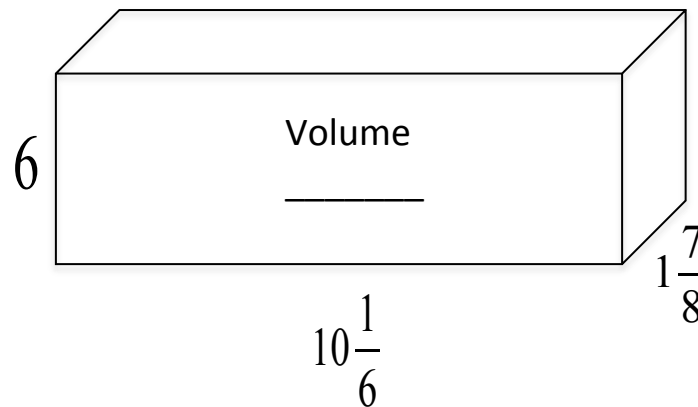
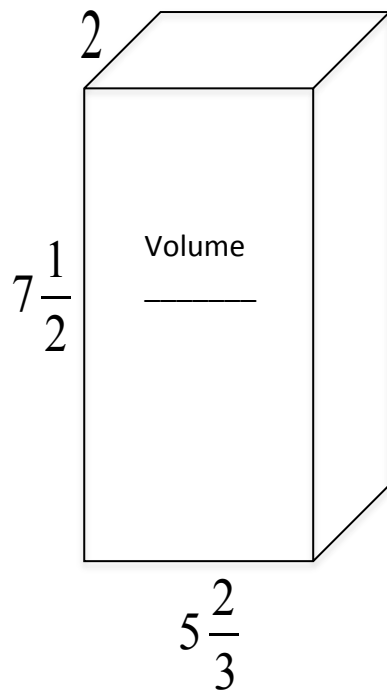
2) Jamal gets tired of counting blocks, so tries to think of a faster way to calculate the space inside the boxes. Assist Jamal in developing a formula for these boxes that are right, rectangular prisms.

Volume = \_\_\_\_\_ units<sup>3</sup>



Jamal is excited that developing a mathematical formula has made his life easier. With the formula, he can even determine the space inside boxes that have fractional and decimal side length measurements. (Imagine how difficult that would be to do with blocks!!)

3) Use your formula to determine the volumes of the right, rectangular prisms below. All measurements are in inches.



...so how many cubes fit inside each ?

