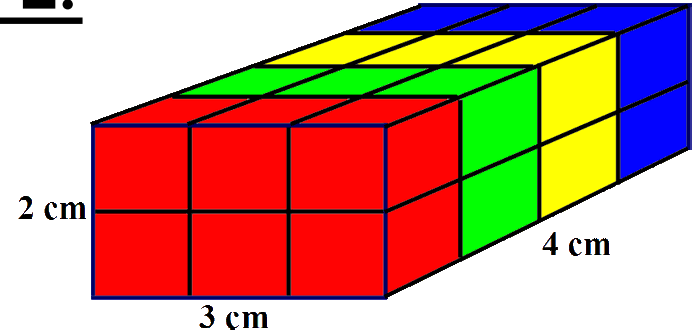


LW#4~ VOLUME OF SOLIDS

FOR FULL CREDIT ON THIS ASSIGNMENT, YOU MUST HAVE:



- **TITLE**
- **PURPOSE**
- **2 DATA TABLES**
 - **EACH DATA TABLE must be correctly labeled WITH UNITS!**
 - **All columns filled in**
- **ANALYSIS QUESTIONS ANSWERED IN COMPLETE SENTENCES (4 questions)**

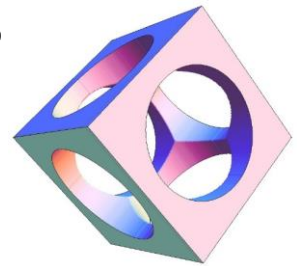
LW#4: VOLUME OF SOLIDS

PURPOSE:

- Learn the proper procedure for measuring and calculating the volume of **REGULAR** and **IRREGULAR SHAPED** solids

ANALYSIS: Answer in complete sentences that restate the question

1. You found the volume of a domino and a metal bar using both the displacement method and the $L \times W \times H$ formula. Were your answers the same for both methods? **EXPLAIN** which method is probably the most accurate.
2. If you were given a cube with a holes cut out of it like the example to the right, which procedure would you use to find its volume (graduated cylinder=irregular object OR ruler = rectangular prism)? **WHY?**



3. You are trying to make a pool for your hamster to keep cool. The pool measures 10 cm x 5 cm x 2.5 cm. How many **MILLILITERS** of water will it take to fill your hamster pool? **EXPLAIN** your reasoning
4. Suppose you have two objects are exactly the same size and shape, but one object has a much larger **MASS** than the other. Will they raise the water level by the same amount? **IN COMPLETE SENTENCES, Explain your answer.**