## Study Guide Module 5

1 What is the volume of one unit cube?

cubic unit

2 Steve packed a box completely with unit cubes that each have a side length of 1 centimeter. The box has a volume of 36 cubic centimeters. How many unit cubes does Andy pack into the box?

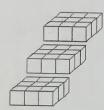
36 cm3

3 What is the volume of the shape below?



lo cubic units

4 What is the volume of each layer? What is the total volume with all layers stacked together?



9 units

27 cubic units

5 Find the area of a rectangle with the following dimensions:

$$5\frac{4}{6}$$
 in. x  $4\frac{3}{5}$  in.

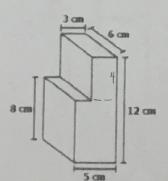
$$5\frac{4}{6}$$
 in.  $\times 4\frac{3}{5}$  in.  $\frac{34}{6} \times \frac{23}{5} = \frac{782}{30}$ 

6 How many more cubes are required to completely fill the rectangular prism below? What are the dimensions and total volume of the prism? 6x7x5



Date:

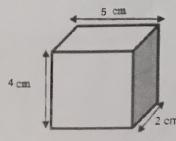
7 Find the total volume of the shape.



3x6x4=72

8x5x6=740

8 The box below is filled with sand. Shade the beaker to show how many milliliters of sand is in the box.



150 mL --

4x5x2= 40 cm3

Write an "X" under all of the shapes that have the properties listed.

	Properties	Quadrilateral	Trapezoid	Parallelogram	Rectangle	Rhombus	Square	Kite
	has exactly 4 sides	X	×	×	X	×	×	×
	has at least 1 pair of parallel sides	a.	X	×	,		×	
	has 2 pair of parallel sides			X	×	×	×	
	has 490º angles				×		×	
	has 4 equal sides					×	×	
	opposite sides are equal lengths			×	×	×	~	
2	2 pair of adjacent sides with equal lengths					×	×	×

0. Complete the hierarchy flowchart using the word bank.

Square Parallelogram Rectangle

Trapezoid Rhombus Quadrilaterals

