



## **MATH**

**STEP ONE**: Watch the video of Steve doing the **Happy Dance**. Pay attention to what solid shapes his arms, legs, body, and head are.

1.	What part of Steve's body is a cube?	
2.	What is the volume of that cube? cubic units	
3.	What parts of Steve's body are rectangular prisms?	
4.	What is the volume of Steve's arms?cubic units	
5.	What is Steve's <b>TOTAL</b> volume? cubic units	
STEP TWO: MAKING STEVE'S HEAD FROM CUBES		
1.	Steve's head has grown. It now has a volume of 64 cubic units. Make Steve's head!	
2.	What is the length, the width and the height of Steve's head? units.	
3.	How many faces are there on Steve's head?	
4.	How many edges are there on Steve's head?	
5.	What is the area of each face? square units	
6.	What is the perimeter of each face? units	
STEP THREE: MAKING STEVE'S CHEST FROM CUBES		
	1. Steve's chest has a new volume of 64 cubic units. Make Steve's chest!	
	2. What is the length of Steve's chest? units	
	3. What is the width of Steve's chest? units	
	4. What is the height of Steve's chest? units	
	5. How many vertices are there on Steve's chest?	
	6. What is the area of the biggest face? square units	
	7. What is the perimeter of the smallest face? units	

## STEP FOUR: PUTTING IT ALL TOGETHER...TIME FOR SOME FORMULAS

1.	How many congruent faces are on Steve's head?
2.	What formula would we use to calculate the volume of Steve's head?
	What shape is Steve's chest?
4.	What formula would we use to calculate the volume of Steve's chest:
5.	Which part of Steve's body is a <b>regular solid</b> ?
STI	EP FIVE: CHALLENGE TIME
	<ol> <li>You are building a fort that has exactly 80 cubic units and is a rectangular prism         Design the fort and tell what its dimension are:     </li> </ol>
	Length: units Width: units Height:units
	<ol> <li>You are building a fort that has exactly 125 cubic units and is a regular solid.</li> <li>Design the fort and tell what its dimension are:</li> </ol>
	Length: units Width: units Height:units