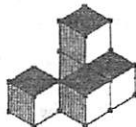


Name \_\_\_\_\_ Date \_\_\_\_\_

### How Many Ways?



1. Count out 24 cubes.
2. Build all the rectangular prisms that can be made with the 24 cubes. For each rectangular prism, record the dimensions and volume in the table below.
3. What do you notice about the rectangular prisms you created?
4. How can you find the volume without building and counting the cubes?

Shape #	Area of the BASE of the Solid $A = bh$		Number of Layers of the Base (Height of Solid)	Volume
	base	height		
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				