Name:	Block:
Volume, Nets, and Surface Area	
The cube shown to the right represents the unit cube	e. 1
It has the dimensions 1 by 1 by 1.	
Color the faces of the unit cube blue.	1 1
What is the volume of the cube? 1 x 1 x 1 =	cubic unit
The rectangular prism in <i>Figure 1</i> is made up of som cubes that have been cut in half.	ne unit cubes as well as other
What are the dimensions of Figure 1?	1 cube
21/2 by by	2 Cube
Color the faces of the unit cubes blue.	
Color the faces of the 1/2 cubes green.	
How many uncut (unit) cubes are in the figure?	
How many 1/2 cubes are in the figure?	Figure 1
Without using the formula for finding volume, explain of the prism.	n how you could find the volume

Now show how to find the volume using the formula.

The rectangular prism in Figure 2 is made up of some unit cubes, some 1/2 cubes and some 1/4 cubes.

What are the dimensions of Figure 2?	
by by 21⁄2	T Cul
Color the faces of the unit cubes blue.	
Color the faces of the 1/2 cubes <i>green</i> .	
Color the faces of the 1/4 cubes red.	
How many unit cubes are in the figure?	Figure 2
How many 1⁄2 cubes are in the figure?	
How many 1⁄4 cubes are in the figure?	
Without using the formula for finding volume of the prism.	e, explain how you could find the volume

Now show how to find the volume using the formula.

and 1/8 cubes.	
What are the dimensions of Figure 3?	
by by 41⁄2	
Color the faces of the unit cubes blue.	
Color the faces of the 1/2 cubes green.	
Color the faces of the 1/4 cubes red.	
Color the faces of the 1/8 cube yellow.	
How many unit cubes are in the figure?	
How many 1⁄2 cubes are in the figure?	Figure 3
How many 1⁄4 cubes are in the figure?	_
How many 1/8 cubes are in the figure?	_
Without using the formula for finding volume, explor of the prism.	ain how you could find the volume

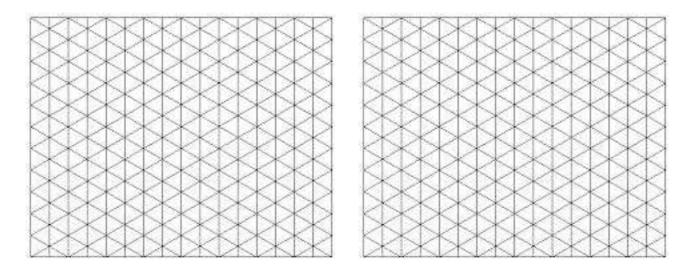
The rectangular prism in Figure 3 is made up of unit cubes, 1/2 cubes, 1/4 cubes

Now show how to find the volume using the formula.

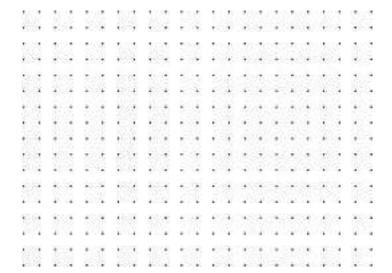
Mr. Wong created a rectangular prism with the dimensions of 2 cubes by 3 cubes by 4 cubes.

What is the volume of the prism? Show your work!

Draw a picture of the rectangular prism below.



Draw a net that would cover this rectangular prism.



Calculate the surface area of the rectangular prism using the net above.