CDC Writing Carron Spidle Mission Michael says to find the volume of a rectangular prism you just count the cubes.

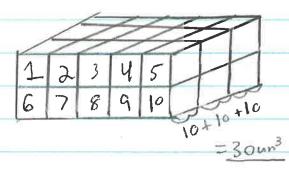
Sam says you use the formula lxwxh to find the volume. Who is correct? Explain your reasoning. 3-D figure in this situation: Claim:
To begin, in this situation there are two individuals who have different opinions on how to calculate the volume of a figure. However, both of them have correct opinions. First, to find volume, you can count all of the cubes. Second, you can also find volume using the more efficient way by using the formula. (LXWXH) Next Page

Page 1

Data:

Michael's way:

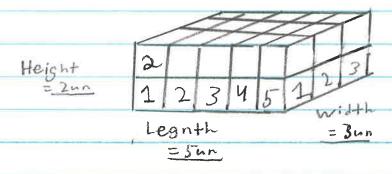
(Counting the cubes.)



Michael get the answer

Sam's Way:

(Using the formula.)



Length x Width x Height

5x3x2

Page 2

5x3x2 15x2 = 30 un3 (Both answers for each option result with the answer of 30m3. Commentary: So, to start off, what is volume? Well, first you have to know how to create a 3-D figure. In this case, the 3-D figure is a rectangular prism. Because of that, I will using a rectangular prism as our example for this commentary. the numbers Callerans Anyways, lets get started. the gravises of + me stee + (1) First, the first thing you is you create a 2-D rectangle. (I highly recommend using a ruler create these lines.) Next, you then add a line in the middle of the rectangle. Next Page -Page 3

After that you calculate the distance of the two spaces next to the line. You then use that measurement to determine how much space you then put between the lines that go up. Now, you put an indicator depending on how long the intervals are on the spaces going sideways. For example, imagine that the measurement of the spaces going sideways is to of an inch. You would then use that measurement by putting to inch between each space that goes Moving on, after you put all of the indicators, (you might need to extend your rectangle if you run out of space for your indicators.),
you then need to draw straight
lines that go up from those indicators. You now need to add a line extending out of the right side of the shape. Next Page Page

his line should be at about a 20° angle. (Use a protractor to help.) When you did that, you now need to add indicators with the same space between them as the last ones. (of an inch.) As of right now, you will not put a line where the new indicators are. Instead, you will jump over to the left side of the figure. You then need to add a line that is at about a 30° angle. (This line needs to extend out to the right.) Now you need to move back to the right of the figure. You now need to add a straight line that is vertical. This line should end up being at the same height as the line you just made. When you completed those (10) two steps you now need to connect those two lines. Next page ---Page 5

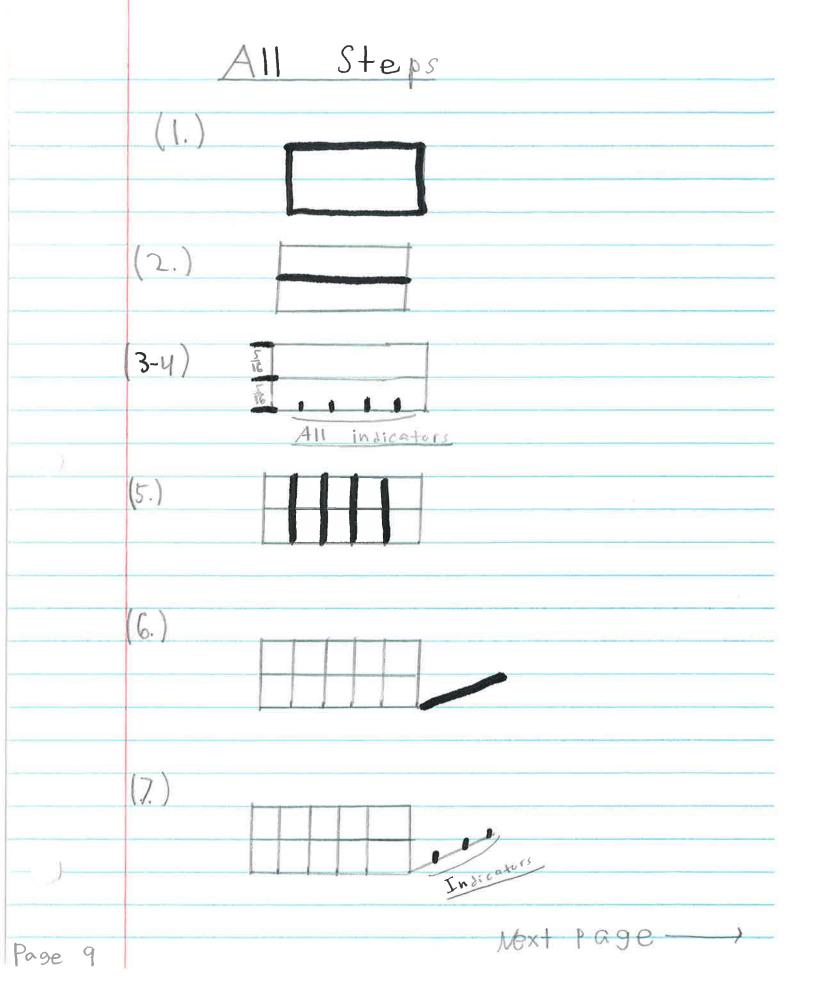
After you have done that,

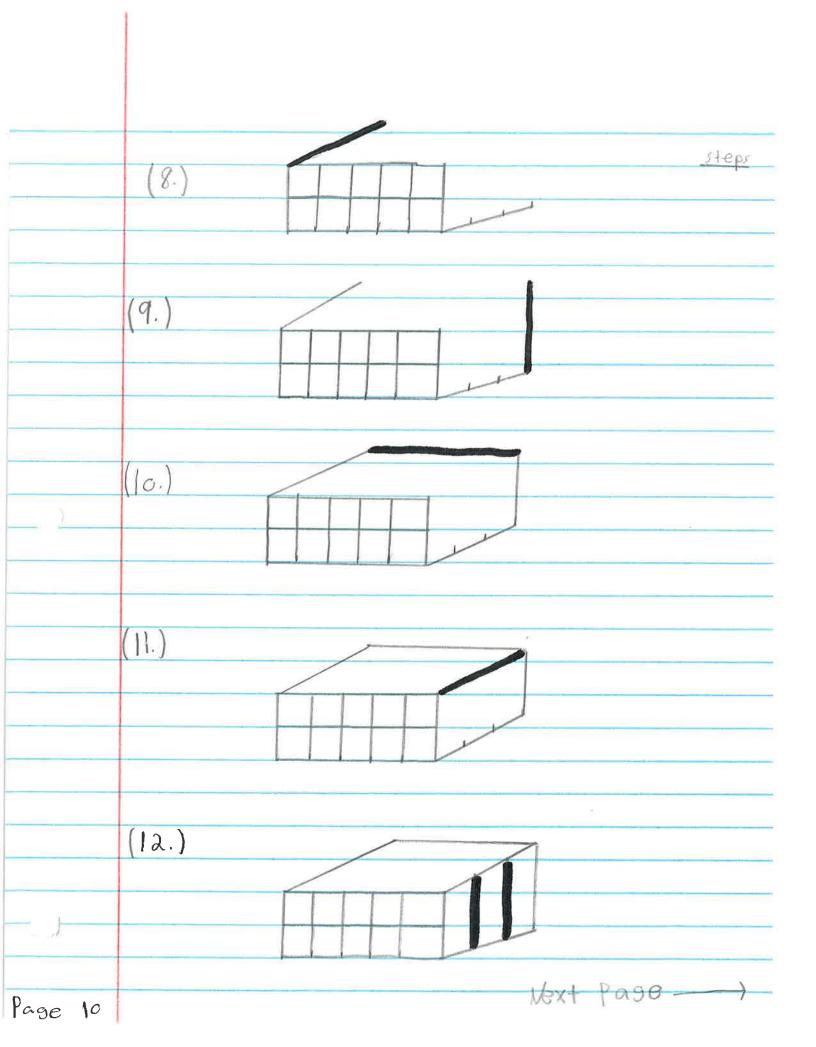
you now need to draw another diagonal line. This line, however, needs to be drawn from the top right of your original rectangle to the very top right Corner of your figure.

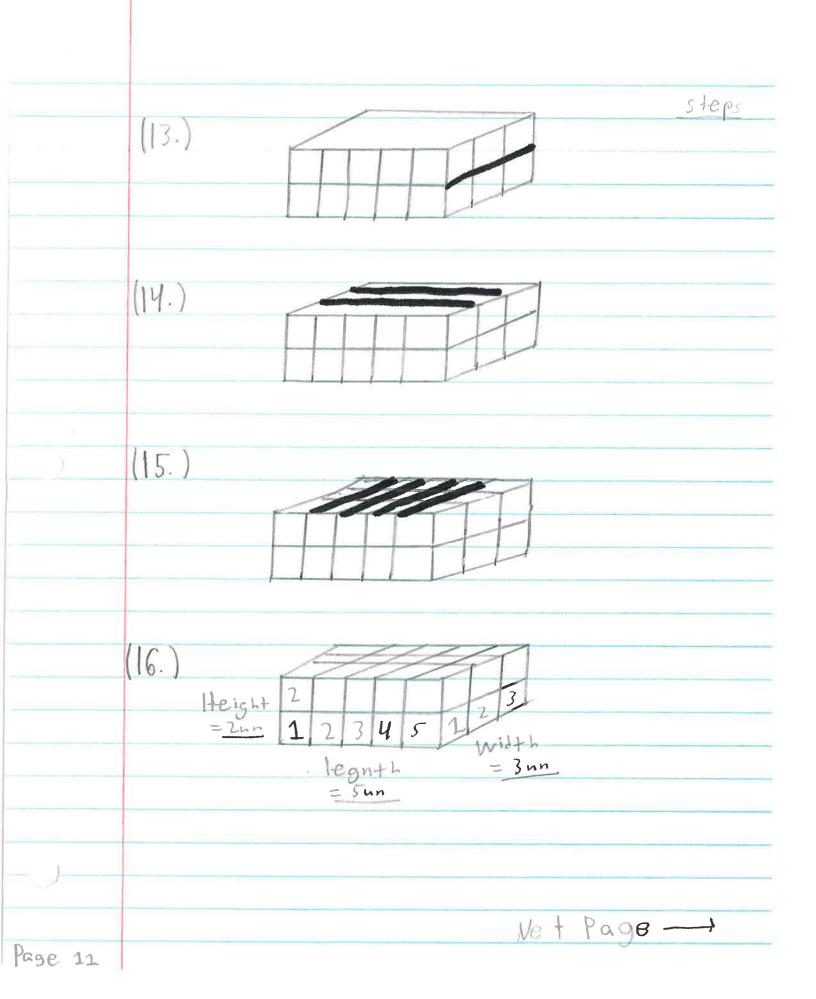
The indicators now, should (12) have a vertical line that goes up to the line you just made. When that is done, 1131 you now need to create a line that goes through the line NEEDS to go straight through the middle of the other lines. The angle of this horizontal line should be at about a 24° angle.)
After that is done, the (41) next thing you need to do is make a line that goes straight line you just made. This line should go from left to right. Next Page ----Page 6

(You need to do this with every line from step 11.)
To end, the last step thing but with the lines from step 5. These lines should (15) be at an angle of about 25°. When you are done with that you have completed your rectangular prism. The next thing to talk about is volume. So, what is volume? Volume is simply the amount of space an object takes up or occupies. Only one question remains. How do you find the volume of a 3-D figure?
The first thing you need to do is you need the count there are in (16) the legath, width, and height of the figure. Next Page ----Page 7

After that, you then
need to multiply the length,
width, and height. To do this,
You can use the formula LxWxH.
For example, lets say the (17] legath is 5, the width 10 3, and the height is 2. You would multiply 5 and 1, 11 har then. get 30. (Since the cuber are be 30 un?)
There are two ways to calculate votume. That was one way which is more efficient.) The second way involves you (E) in counting the cuber. For example, imagine the top of a rectangular prism is 15 mm. (You figures this out by counting the contern Adding an, lets say that the height is 2000. You would then multiply Isux and Lun to get Next Page -Page 8







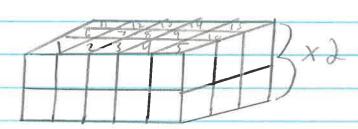
(17.) V= LxwxH

Steps

5×3×2

15x2 = 3oun3

(18.



15×2

= 30 un3

	To sum it all up,	Ending
	that is mainly how you	
	find volume and how you	
	make a rectangular prism.	
	I hope that you now	
	Know that both Michael	
	and sam are correct and	
	why.	
)		
a		
- 2		
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