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Student Name	Per
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Ms. Buchalskí

QUESTIONS

1.	Which cell model has the smallest surface area?		
2.	Which model has the largest surface area?		
3.	Which model has the smallest volume?		
4.	Which model has the largest volume?		
5.	Which model has the smallest ratio of surface area to volume?		
6.	Which model has the largest ratio of surface area to volume?		
7.	As the cell grows larger, does the Surface Area -to- Volume Ratio get larger, smaller, o		
	remain the same?		
8.	Anything that the cell takes in, like oxygen and food, or lets out, such as carbon		
	dioxide, must go through the cell membrane. Which measurement best represents		
	how much cell membrane the models have?		
9.	The cell contents, nucleus and cytoplasm, use the oxygen and food while producing		
	the waste. Which measurement best represents the cell content?		
10	. As the cell grows larger and gets more cell content, will it need more or less cell		
	membrane to survive?		
11	. To maintain life and carry-out cellular functions, materials must be able to move into		
	and out of the cell. Also, materials need to be able to move within a cell. What migh		
	be the advantage of having a large surface area?		
12	. What might be the disadvantage of having a large volume?		
13	. What happens to a cell if the surface area cannot support the volume of the cell?		
14	. Why can't cells survive when the Surface Area -to- Volume ratio becomes too small?		
- 15	. Which size cell has the greatest Total Surface Area -to- Volume Ratio?		
16	. Which size cell has the greatest chance of survival?		
17	.What can cells do to increase their Surface Area -to- Volume Ratio?		