



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

### Concept Covered: The Animal Cell

Directions: Label the parts of the animal cell.



- |                 |    |              |    |
|-----------------|----|--------------|----|
| cell membrane   | 1  | vacuole      | 8  |
| golgi apparatus | 3  | chromosomes  | 9  |
| ribosomes       | 5  | lysosome     | 10 |
| rough ER        | 4  | mitochondria | 11 |
| nucleolus       | 6  | smooth ER    | 12 |
| nucleus         | 7  | cytoplasm    | 13 |
| animal membrane | 14 | mitochondria | 14 |



Name Chloe

Date July 17

### Concept Covered: Surface Area to Volume Ratio

Determine the surface area to volume ratio of the two "cells" seen below.



What is the volume of cell A? (volume =  $L \times W \times H$ )

$$V = (2\text{ cm})(2\text{ cm})(2\text{ cm}) = 8\text{ cm}^3$$

What is the surface area of cell A? (surface area =  $6L \times W$ )

$$SA = 6(2\text{ cm} \times 2\text{ cm}) = 24\text{ cm}^2$$

What is the surface area to volume ratio of cell A?

$$\frac{SA}{V} = 3:1 \text{ ratio}$$

What is the volume of cell B?

$$V = (3\text{ cm})(3\text{ cm})(3\text{ cm}) = 27\text{ cm}^3$$

What is the surface area of cell B? (surface area =  $6L \times W$ )

$$SA = 6(3\text{ cm} \times 3\text{ cm}) = 54\text{ cm}^2$$

What is the surface area to volume ratio of cell B?

$$\frac{SA}{V} = 2:1 \text{ ratio}$$

What happens to the surface area to volume ratio as the cell increases in size? it decreases

How does this affect the cell's ability to get nutrients and get rid of wastes? if the surface area to volume ratio is too small, the cell cannot get needed nutrients

What does a cell do to make sure that it does not grow too big? cell division

# Science Notebook Biology Answer Guide

**N Noddings**



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