**Surface Area to Volume Quiz Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

1. What cell structure is essentially represented/measured by the surface area of a cell?
2. What cell structure(s) is/are essentially represented/measured by the volume of a cell?
3. Why is it beneficial for a cell to have a larger surface area relative to volume (bigger A/V)?
4. Which cell has the larger surface area relative to volume (bigger A/V)?

r=0.2

r=2

**Cell1 Cell 2**

1. Why might it be advantageous to be composed of multiple small cells versus a giant single cell?