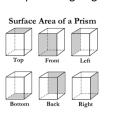
Surface to Volume Ration

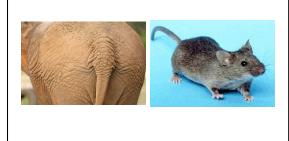
AND THE EFFECT ON CELLS

Surface Area

• The amount of space toughing the outside



WHO HAS MORE SURFACE AREA?



VOLUME



WHO HAS MORE VOLUME?

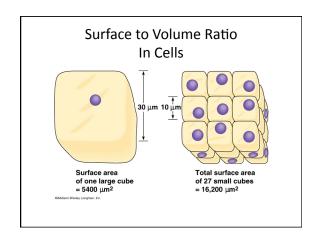


Ratio

- A relationship between two numbers of the same kind
- Basically: a ratio represents
 - for every amount of one thing, how much there is of another thing

4:3

Surface to Volume Ratio "Surface: Volume" • The amount of area exposed, relative to how much (3D) space it takes up.



How Does this Effect Cells?

Summary

(From your flexbook)

- All cells are very small because they need to pass substances across their surface. Their small size gives them a relatively large ratio of surface area to volume, facilitating the transfer of substances.
- The shapes of cells may vary, and a