

## Question #82951, Biology / Cell Biology

### Question:

Surface to volume ratio in a single cell animal like Amoeba can be as low as how many.

### Answer

Amoeba has a relatively large surface area to volume ratio. As the cell gets bigger, its surface area to volume ratio gets smaller. The surface area (SA) of Amoeba is  $6 \times 10^{-8}(\text{m}^2)$ , and the volume (vol) is  $10^{-12}(\text{m}^3)$ . So, the SA to vol (SA/vol) is  $60,000 \text{ m}^{-1}$ .

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