

9/17 Mighty Mitochondria

Surface Area & the folded membrane ...

- Surface Area = has 2 dimensions:

Length
(L)

and
x

Width
(W)

Volume

(A) S.A. #1 375 cm^2

* Mitochondria's inner Membrane.



$$\begin{array}{r} 12.5 \\ \times 7.5 \\ \hline \end{array}$$

$$\begin{array}{r} 12.5 \\ \times 7.5 \\ \hline 93.75 \\ \times 4 \text{ (4 cards)} \\ \hline \end{array}$$

(B) S.A. #2 1,500 cm^2

* Mitochondria's inner Membrane
PLUS folded Membrane

$$\text{MM} = 1,125 \text{ cm}^2$$

$$\square = 375 \text{ cm}^2$$

$$\underline{1,500 \text{ cm}^2}$$