

Names _____



(1) Measuring the Cell Model

FIND the exhibit, "Cell Model"

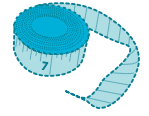
GRAB the 4 cell model drawings from your backpack.

GUESS:

The giant cell model is _____ times bigger than the cell model drawing.

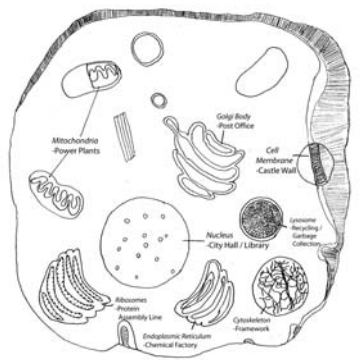
The giant cell model is _____ times bigger than an average human cell.

Why did these numbers seem like good guesses to you? _____



MEASURE the width of the cell model and the cell drawing.

RECORD	Measurement	Check
Cell Model Width	_____ cm	_____ cm
Cell Drawing Width	_____ cm	_____ cm



Draw where you measured.

COMPARE THE CELLS' WIDTHS

How many times wider is the cell model than the cell drawing?

Hint:

$$\begin{array}{c} \text{model width} \rightarrow \\ \text{drawing width} \nearrow \end{array} \mathbf{M \div D = X} \begin{array}{c} \nwarrow \\ \text{times wider} \end{array}$$

_____ times wider

Check your measurement in another way:
 Use the cell drawing to measure the width of the cell model.
 How many cell drawings does it take?

_____ cell drawings across

Hint: This answer should be similar to the last answer.

COMPARE THE CELLS' AREAS

Use the cell drawing as tiles to measure the area of the cell model.
 How many cell drawings does it take to fill the cell model?

_____ cell drawings to fill the area

