## Measuring and Conversion

## 1. The Task

Example task: What is the thickness of the San Rafael Group in meters?
Tools:

## Stratigraphic

Section mana asom

SECTION
GLEN CANYON/ KAIPAROWITS plateau

Kaiparowits
Fermation



Waliweap Fermation


Cretaceous
Moabe


Tided Capran Mmba
Sedy Relaw Mmba
-

## Ferm

shale
Dakota Fm

## Marrisan

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Eomana Sanditone
```



## 2. Measure the Section

Use the ruler to measure the length of the San Rafael Group on the stratigraphic section*.

*Image and ruler in this box are magnified 2x for clarity
3. Measure the Scale

Use the ruler to measure the length of 100 m on the scale bar.


## 4. Do the Math

Use your measurements to convert your San Rafael Group length into actual thickness in meters (symbolized as $X$ in the equation below).

Solve for $X$
$\frac{100 \mathrm{~m}}{0.95 \mathrm{~cm}}=\frac{X}{3.9 \mathrm{~cm}}$
$X=\frac{100 \mathrm{~m} \times 3.9 \mathrm{~cm}}{0.95 \mathrm{~cm}}=410.5 \mathrm{~m}$

