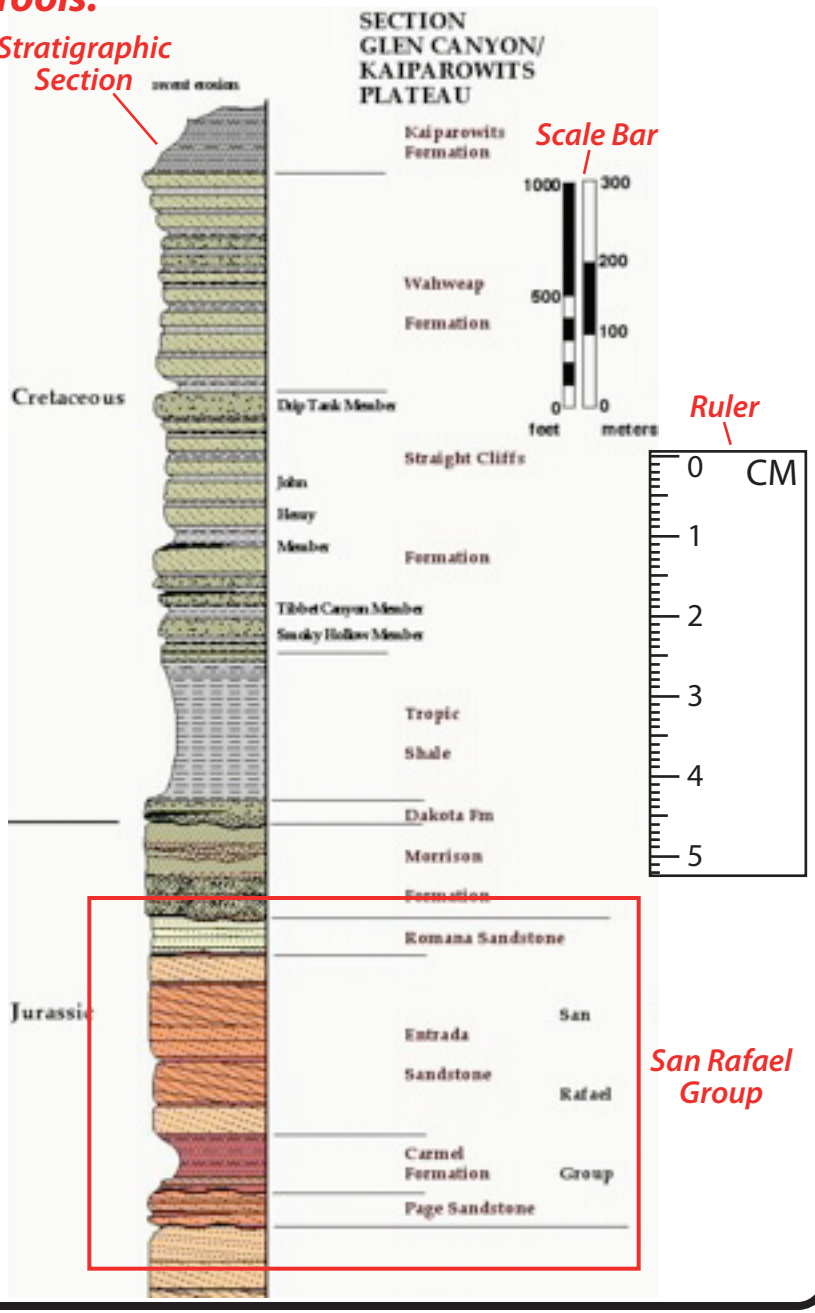
Measuring and Conversion

1. The Task

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

Tools:



2. Measure the Section

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

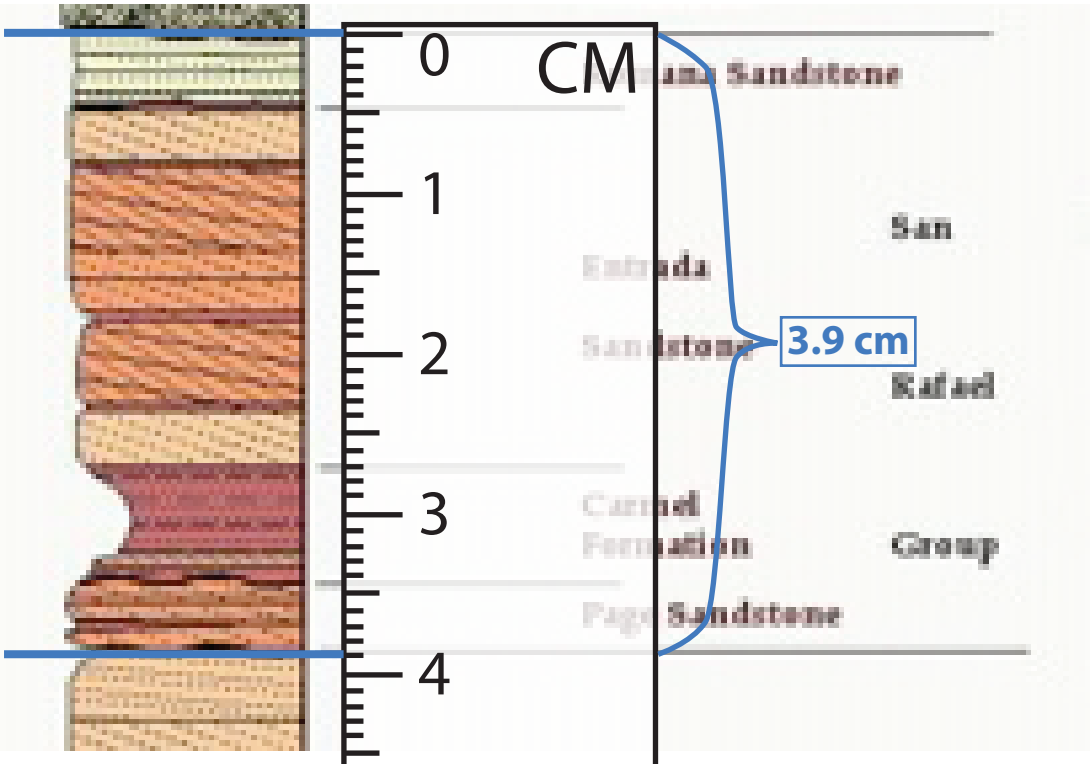
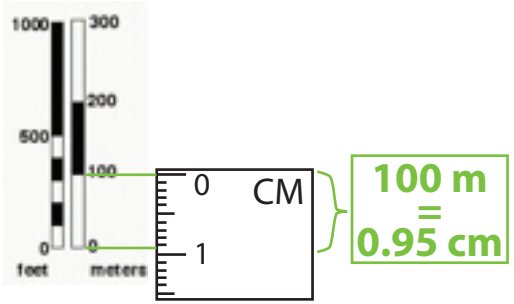


**Image and ruler in this box are magnified 2x for clarity*

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

$$\frac{100\text{ m}}{0.95\text{ cm}} = \frac{X}{3.9\text{ cm}}$$

$$X = \frac{100\text{ m} \times 3.9\text{ cm}}{0.95\text{ cm}} = 410.5\text{m}$$