## Problem-Solving Lab

## Calculating Gradients

## Analyze changes in elevation

 Gradient refers to the rate of change in the steepness of a slope. To measure gradient, divide the change in elevation between two points on a map by the distance between the points. Use the map to answer the questions; convert your answers to SI .
## Analysis

1. Use the map scale and a ruler to determine the distance from point A to point $B$. Record the change in elevation between the two points.
2. If you were to hike this distance, what would be the gradient of your climb?


## Thinking Critically

3. Calculate the gradient from point $B$ to point $C$. Would it be more difficult to hike from point $A$ to point $B$, or from point $B$ to point $C$ ? Explain.
4. Between point $A$ and point $C$, where is the steepest part of the hike? How do you know?
