

Multiple Choice: Cross-Cutting Relations

Directions: Use the image to answer the multiple choice questions.

Questions

1. What is the oldest feature on the diagram?

Dike A
Rock Layer 8
Rock Layer 1

2. What is the oldest Dike in the diagram?

Dike A
Dike B
Dike C

Answers

1. Rock Layer 1

Correct Feedback: By superposition, you know that this bottom rock layer is the oldest. Also, Dikes A and C cut through this layer, meaning that the layer is older than the dikes.

2. Dike C

Correct Feedback: Dike C is cut by Dike B, and Dike B is cut by Dike A. By cross-cutting relations, this makes Dike C the oldest. It had to have been there first.