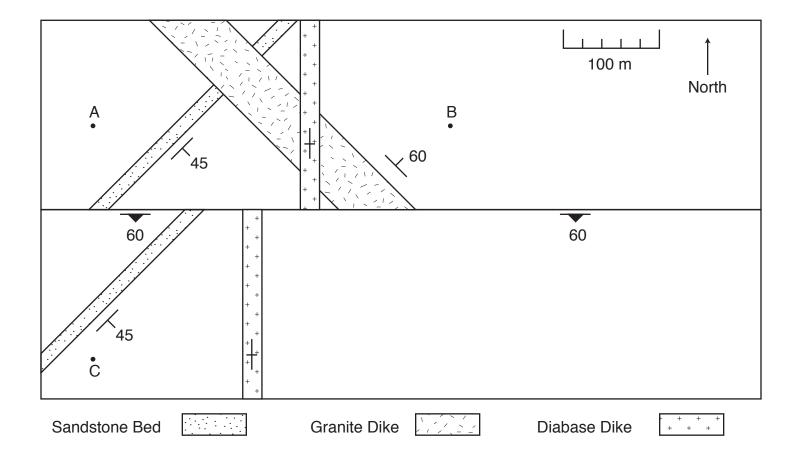
## Fault Displacement Problem



A sandstone bed has an attitude of N 45 E, 45 SE. It is cut by a granite dike with an attitude of N 45 W, 60 NE, which is cut in turn by a vertical diabase dike trending N - S. All of these are disrupted further by a fault striking E - W and dipping 60 to the South.

- 1. What is the strike slip component of the net displacement?
- 2. What is the dip slip component of the net displacement?
- 3. What is the magnitude, plunge and bearing of the net displacement?
- 4. Complete the map by drawing in the granite dike south of the fault.
- 5. Construct a vertical cross section from A to B.
- 6. Construct a vertical cross section from A to C.