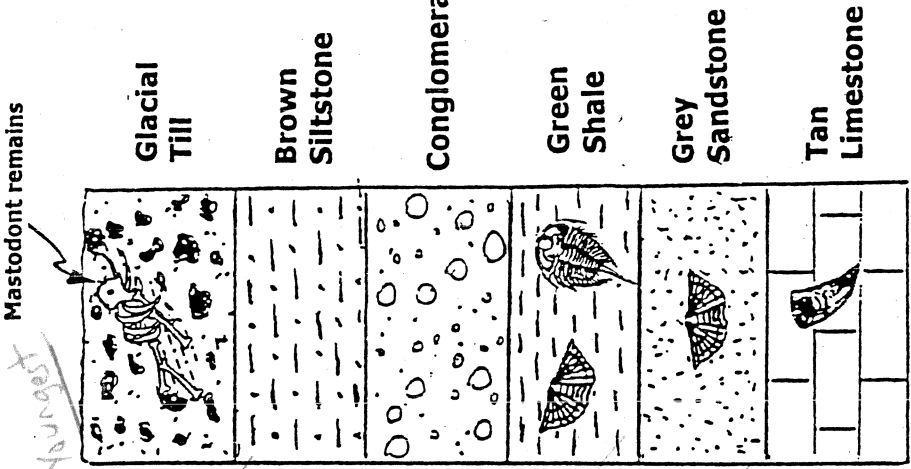
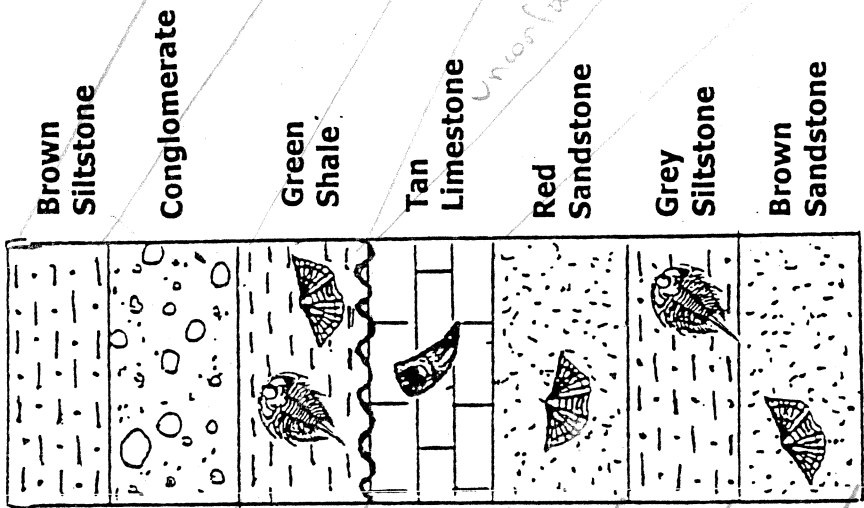
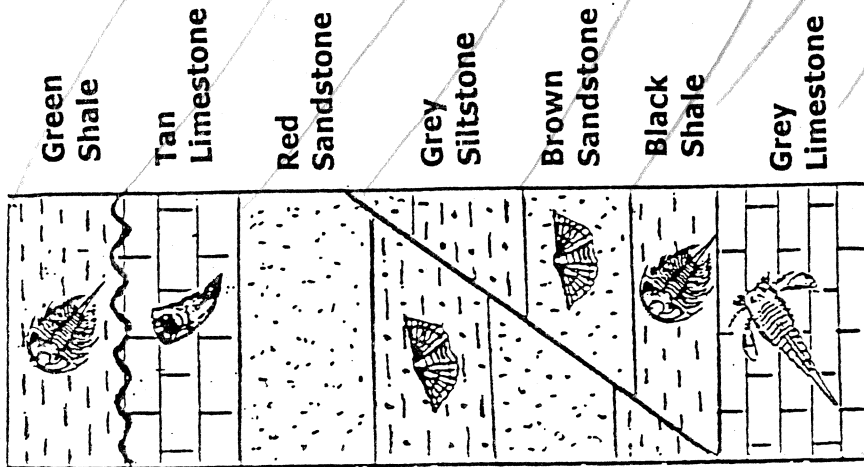


# Correlation of Rock Columns



Correlate the Rock Layers by drawing lines between layers that formed at the same time.

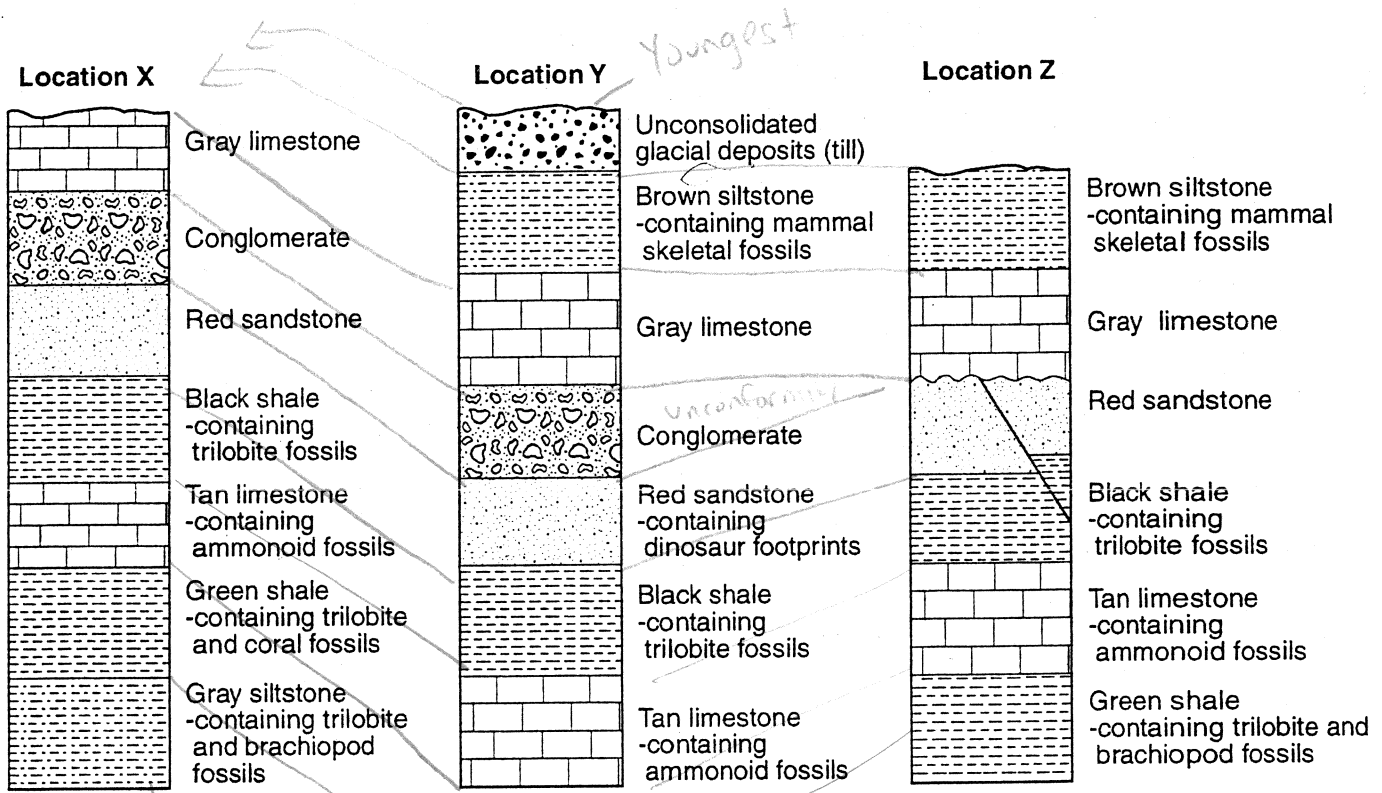
## Rock Formations

**Fossil Key:**

- Eurypterid
- Horn Coral
- Brachiopod
- Trilobite

Rock Correlation

Base your answers to questions 10 through 14 on the cross sections below, which show widely separated outcrops at locations X, Y, and Z.



10. Which rock layer is oldest?  
 (1) gray siltstone (2) green shale (3) tan limestone (4) brown siltstone
11. At location Y, the boundary between the red sandstone and the black shale marks the  
 (1) beginning of the Cenozoic Era (2) beginning of the Mesozoic Era (3) end of the Cenozoic Era (4) end of the Mesozoic Era
12. An unconformity can be observed at location Z. Which rock layer was most probably removed by erosion during the time represented by the unconformity?  
 (1) conglomerate (2) gray siltstone (3) black shale (4) brown siltstone
13. The fossils in the rock formations at location X indicate that this area was often covered by  
 (1) tropical rain forests (2) glacial ice (3) desert sand (4) seawater
14. Which rock layer was formed by the compaction and cementation of particles that were all less than 0.0004 centimeter in diameter?  
 (1) red sandstone (2) green shale (3) brown siltstone (4) conglomerate