

KEY → Look for key terms!

1. Which sedimentary rock would be composed of particles ranging in size from 0.0004 centimeter to 0.006 centimeter?

- 3  
 (1) conglomerate      (2) siltstone  
 (2) dolostone        (4) shale

2. Which property best describes a rock which has formed from sediments?

- 4  
 (1) crystalline structure  
 (2) distorted structure  
 (3) banding or zoning of minerals  
 (4) fragmental particles arranged in layers

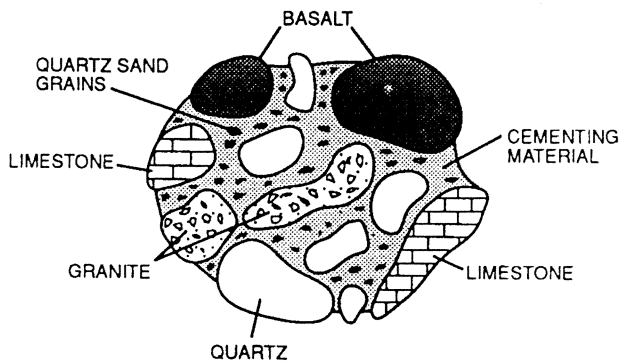
3. Which characteristic determines whether a rock is classified as a shale, a siltstone, a sandstone, or a conglomerate?

- 3  
 (1) the absolute age of the sediments within the rock  
 (2) the mineral composition of the sediments within the rock  
 (3) the particle size of the sediments within the rock  
 (4) the density of the sediments within the rock

4. A rock that forms directly from land-derived sediments is

- 1  
 (1) sandstone                      (3) gabbro  
 (2) dolostone                      (4) granite

5. The diagram below represents a conglomerate rock. Some of the rock particles are labeled.



Which conclusion is best made about the rock particles?

- 4  
 (1) They are the same age.  
 (2) They originated from a larger mass of igneous rock.  
 (3) They all contain the same minerals.  
 (4) They have different origins.

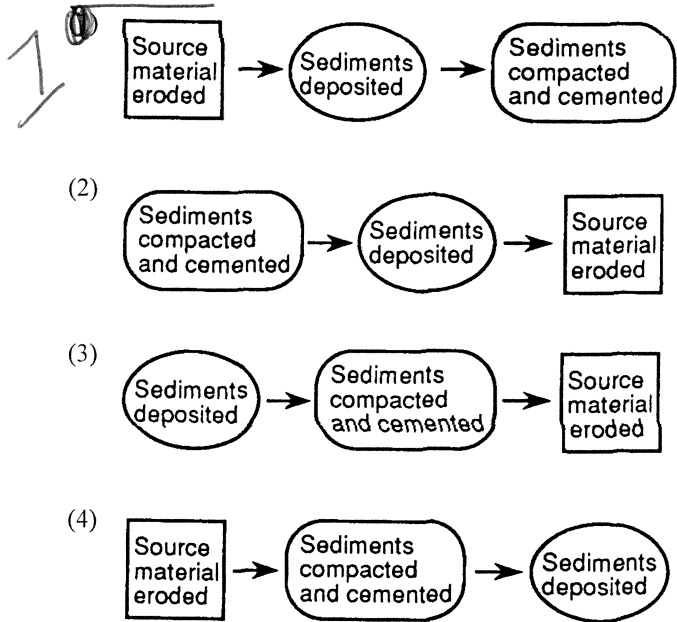
6. Which rock was most likely formed from pebble sized sediment deposited in shallow water at an ocean shoreline?

- 4  
 (1) shale                              (3) siltstone  
 (2) basalt                              (4) conglomerate

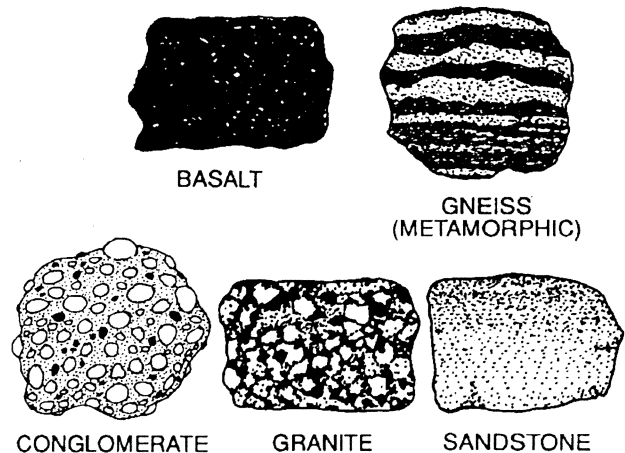
7. Which kind of bedrock would most likely contain fossils?

- 2  
 (1) a high-grade metamorphic rock layer made from mixed igneous and sedimentary layers MET  
 (2) a series of alternating layers of shale and sandstone SED  
 (3) a basalt lava flow from an ancient volcano IGN.  
 (4) a mass of granite in the core of a mountain IGN.

8. Which sequence of events occurs in the formation of a sedimentary rock?



Base your answers to questions 9 and 10 on the diagrams below of five rock samples.



9. Which sample is composed of sediments 0.006 centimeter to 0.2 centimeter in size that were compacted and cemented together?

- 2  
 (1) conglomerate                      (3) gneiss  
 (2) sandstone                              (4) granite

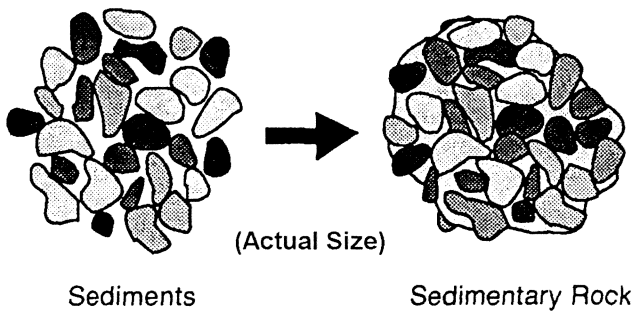
10. Which sample would most likely contain fossils?

- 3  
 (1) gneiss MET                              (3) sandstone SED  
 (2) granite IG                              (4) basalt IG.

11. Which sedimentary rock could form as a result of evaporation?

- 4  
 (1) conglomerate                      (3) shale  
 (2) sandstone                              (4) limestone

12. Base your answer to the following question on the diagram below.



1  
Which sedimentary rock is shown in the diagram?  
 (1) conglomerate  
 (2) sandstone  
 (3) siltstone  
 (4) shale

13. Dolostone is formed by the  
 (1) local metamorphism of marble *MET*  
 (2) biological deposition of skeletons and shells  
 (3) chemical replacement of limestone  
 (4) mechanical deposition of silts

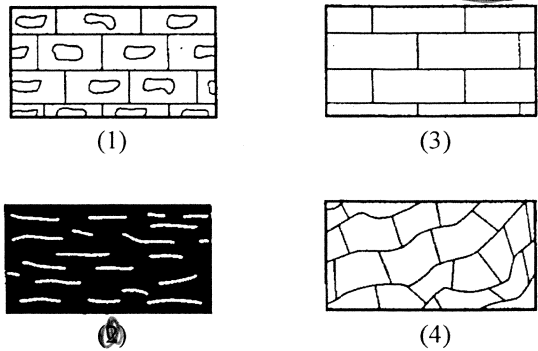
14. Large rock salt deposits in the Syracuse area indicate that the area once had  
 (1) large forests  
 (2) a range of volcanic mountains  
 (3) many terrestrial animals  
 (4) a warm, shallow sea

15. Which rock is formed by precipitation from evaporating water?  
 (1) granite *IG*  
 (2) sandstone *Sed w/ pieces*  
 (3) shale *SED w/ pieces*  
 (4) salt

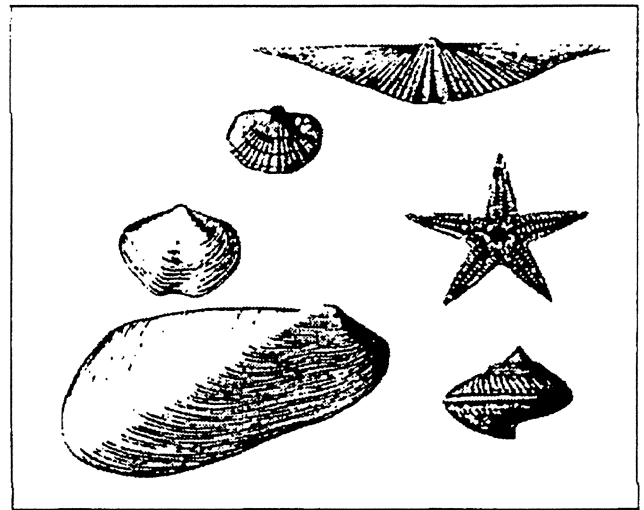
16. Limestone can form as a result of  
 (1) cooling of molten rock under the oceans *IG*  
 (2) metamorphosis of conglomerate rock *IG*  
 (3) precipitation from evaporating water *SED*  
 (4) radioactive decay of dolostone

17. The chemical precipitation of dissolved minerals from ocean water results in the formation of  
 (1) sedimentary rock  
 (2) metamorphic rock  
 (3) fine-grained igneous rock  
 (4) coarse-grained igneous rock

18. Which map symbol is used to represent an organically formed sedimentary rock composed mostly of carbon?



19. The diagram below represents the fossils found in a bedrock formation located in central Rhode Island.



In which type of rock were the fossils most likely found?  
 (1) sedimentary rock that formed in an ocean environment  
 (2) sedimentary rock that formed in a land environment  
 (3) igneous rock that formed in an ocean environment  
 (4) igneous rock that formed in a land environment

20. Which symbol represents the sedimentary rock with the smallest grain size?

