

27**Relative Dating Technique - Correlation**S
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50

Name: _____

Lab Instructor: WAUGAMAN COOKE Lab Period: _____**PROBLEM: HOW CAN YOU USE INDEX FOSSILS TO DETERMINE THE AGE OF ROCK LAYERS IN WHICH THEY ARE FOUND?****PROCEDURE:**

1. Look at the block diagrams of the 6 widely scattered outcrops. The numbers in the rock layers represent different species of index fossils.
2. Arrange the fossils in order from the ***oldest to the youngest***. (*There is more than 1 possible answer*)
3. List the order of the fossils from the oldest to the youngest on a separate piece of paper.
4. Answer the Critical Thinking questions below in complete sentences on your piece of paper.

CRITICAL THINKING QUESTIONS:

1. Which of the fossils is the oldest? How do you know? _____

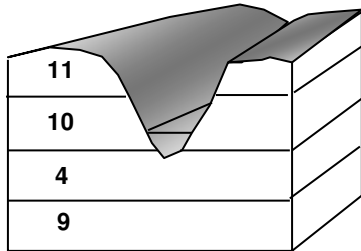
2. Which of the fossils is the youngest? How do you know? _____

3. What are some of the limitations to using the index fossil method of determining the age of a rock layer? _____

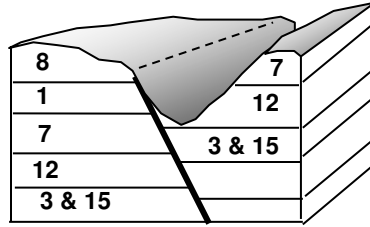
4. What reason can be given to explain why fossil #7 and #12 can be found under #18, and also under #1, but are not found under #1 and 18 when they are in the same layer?

5. Notice that some fossils, such as #10 and #16, can be found together in some cases but not in all. Why aren't they always together?

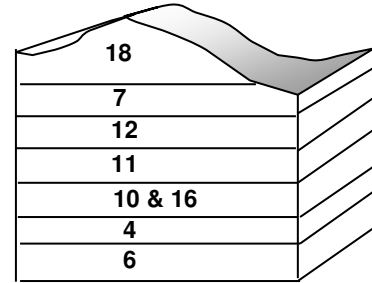
SIX WIDELY SCATTERED CROSS SECTIONS OF ROCK OUTCROPS



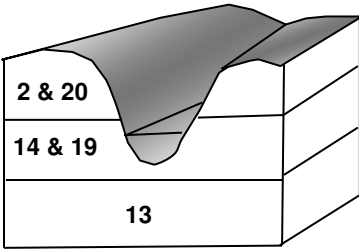
Outcrop #1



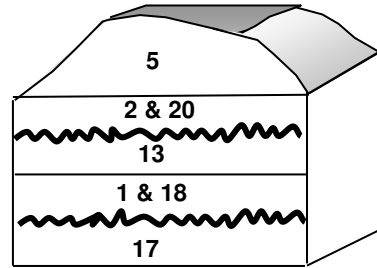
Outcrop #2



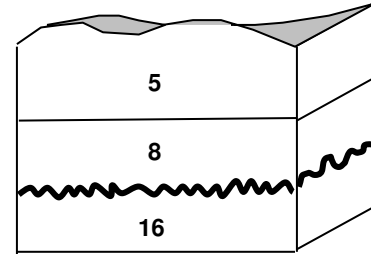
Outcrop #3



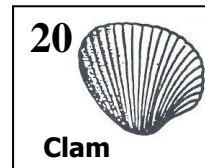
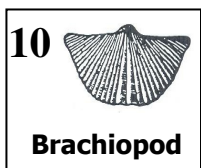
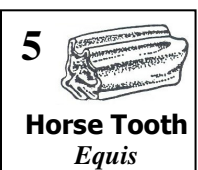
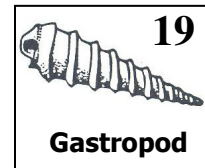
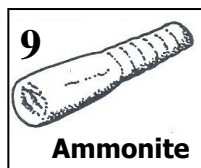
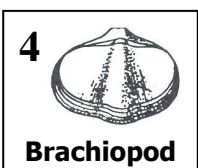
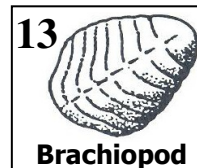
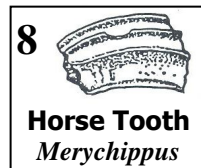
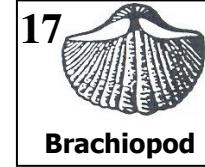
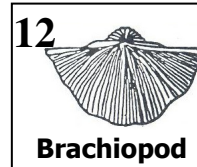
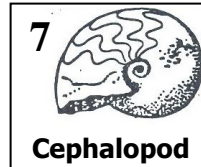
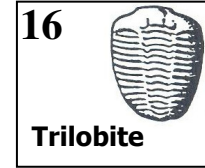
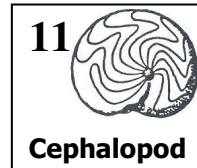
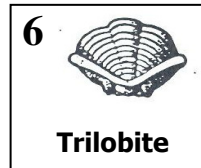
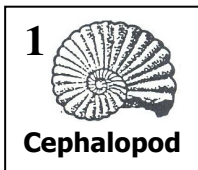
Outcrop #4



Outcrop #5



Outcrop #6



Cut out around boxes and glue onto the Final Answer Area on your answer sheet

Rock Correlation Answer Sheet

Scratch Work

Final Answer

Youngest Rock Strata		Start Here
	Oldest Rock Strata	