Rocks, Fossils, and Time

Grade 4 Science Worksheet - Challenge Me

Name _____ Date _____

Circle the answer.

1. A student says the bottom layer must be youngest because it is the deepest. What is wrong with this reasoning?
   the deepest layer is always the thinnest
   only the top layer can have fossils
   layers stack up over time, so the deepest formed first
   depth has nothing to do with rock

2. Bottom to top: shale with fish, a layer of volcanic ash, sandstone with footprints. Which order of events fits?
   lake with fish, a volcano erupted, animals walked on sand
   animals walked on sand, a volcano erupted, lake with fish
   lake with fish, animals walked on sand, a volcano erupted
   a volcano erupted, lake with fish, animals walked on sand

3. A rock layer has shark tooth fossils. A layer above has bones of land animals. What changed?
   sharks learned to live on land
   land became an ocean
   an ocean area became land
   nothing changed in the area

4. A claim says, "Dinosaurs walked here." Which evidence best supports it?
   dinosaur footprints are preserved in the rock
   the rock is very old and hard
   large animals live here today
   the area has many tall trees

5. A crack cuts through four rock layers. Which statement is true?
   the crack is younger than all four layers
   the crack formed before the bottom layer
   the crack is the same age as the top layer
   the crack is older than all four layers

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Answer Key - Grade 4 Science Worksheet - Challenge Me

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