



# Earthquakes and Faults

**Write the letter of the correct answer in the box.**

- \_\_\_\_\_ 1. The formation of faults is generally caused by the \_\_\_\_\_ of rocks.
  - a. Expansion
  - b. Rolling
  - c. Weathering
  - d. Twisting or tearing apart
  
- \_\_\_\_\_ 2. Earthquake usually occur \_\_\_\_\_
  - a. along active faults
  - b. between rock layers
  - c. along inactive faults
  - d. along earth's surface
  
- \_\_\_\_\_ 3. Which earthquake waves travel through Earth's solid and liquid layers?
  - a. P waves
  - b. P waves and S waves
  - c. P waves and surface waves
  - d. P waves, S waves and surface waves

\_\_\_\_\_ 4. During the passage of a P waves through a rock, the rock particles \_\_\_\_\_

- a. Do not move
- b. Move in a rolling circular motion
- c. Move back and forth parallel to the direction of wave travel
- d. Move back and forth perpendicular to the direction of wave travel

\_\_\_\_\_ 5. If an S waves travels from a solid to a liquid, its velocity \_\_\_\_\_

- a. Stops
- b. Increases
- c. Decreases
- d. Stays the same

\_\_\_\_\_ 6. Earthquake A has a Ritcher magnitude of 7 compared with Earthquake B's 6. What is the relative intensity of the two earthquakes?

- a. A is 10 times more intense than B.
- b. B is 0.01 times less intense than A.
- c. A is 1000 times more intense than B.
- d. Ritcher magnitude does not measure intensity

\_\_\_\_\_ 7. Some residents in an area felt the slight movement of an earthquake for a few seconds. This earthquake must have a Ritcher magnitude of \_\_\_\_\_

- a. 2.0
- b. 3.0
- c. 4.0
- d. 5.0

\_\_\_\_\_ 8. If an earthquake occurs and you are outdoors, the best thing to do is to \_\_\_\_\_

- a. Cover your head
- b. Seek a place to hide
- c. Run as fast as you can
- d. Stay in open areas away from buildings

\_\_\_\_\_ 9. The Philippines experiences a lot of earthquake because it \_\_\_\_\_

- a. Has many islands
- b. Is at the tropical zone
- c. Has many of mountain ranges
- d. Is located at the Pacific Ring of Fire

\_\_\_\_\_ 10. Which of the following statements best describes the state of earthquake prediction?

- a. Scientists can accurately predict the time and location of almost all earthquakes
- b. Scientists can accurately predict when an earthquake will occur, but not its location
- c. Scientists can accurately predict the time and location of about 50% of all earthquakes
- d. Scientists can characterize the seismic risk of an area, but cannot yet accurately predict most earthquake

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