

8. The chart below shows part of Mohs hardness scale for minerals.

Mineral	Talc	Gypsum	Calcite	Fluorite	Apatite	Orthoclase
Hardness	1	2	3	4	5	6

A student is testing an unknown mineral for hardness. The unknown mineral is tested against fluorite, but neither mineral scratches the other.

Which of the following conclusions can the student accurately make?

- A. The unknown mineral and orthoclase will not scratch each other.
- B. The unknown mineral will scratch calcite.
- C. The unknown mineral will scratch orthoclase.
- D. The unknown mineral will not scratch gypsum.

9. Mountains may be formed when:

- A. volcanoes erupt
- B. plates of the Earth's crust collide
- C. both A and B
- D. none of the above

10. Which of these processes can be caused by movement of the Earth's plates?

- A. volcanic eruptions
- B. mountain building
- C. island forming
- D. all of the above