Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Grade 8 Science Group \_\_\_\_

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| **C20. Explain how the boundaries of tectonic plates can be inferred from the location of earthquakes and volcanoes** |

**Continents Adrift: An Introduction to Continental Drift and Plate Tectonics  *Write the letter of the best answer on the space to the left***

\_\_\_\_\_\_\_\_\_\_1. Which of these is **NOT** used as evidence that Earth’s surface consists of plates that are in continuous motion?

A) earthquakes B) blizzards C) mountains D) volcanoes

\_\_\_\_\_\_\_\_\_\_2. What did scientist Alfred Wegener call the large supercontinent that once existed?

A) Eurasia B) Panamerica C) Pangea D) Ring of Fire

\_\_\_\_\_\_\_\_\_\_3. Which of these pieces of evidence did Wegener use to support his theory of continental drift?

A) subduction zones C) seafloor spreading

B) divergent boundaries D) fossils from different continents

\_\_\_\_\_\_\_\_\_\_4. Seafloor spreading explains why \_\_\_\_\_

A) materials circulate within the Earth’s mantle

B) the ocean has high and low tides

C) one portion of the Earth’s crusts dives beneath another portion

D) the oldest part of the ocean floor is found farthest from the mid-ocean ridge

\_\_\_\_\_\_\_\_\_\_5. Scientists think that tectonic plates can move when \_\_\_\_\_.

A) materials circulate in the Earth’s mantle

B) high tide occurs

C) magma is released from the mid-ocean ridge

D) the lithosphere begins to melt

\_\_\_\_\_\_\_\_\_\_6. The rocky outer layer of the Earth is called the \_\_\_\_\_.

A) mantle B) atmosphere C) hydrosphere D) lithosphere

\_\_\_\_\_\_\_\_\_\_7. Energy released during an earthquake creates \_\_\_\_\_.

A) an overheated inner core

B) a mid-ocean ridge

C) an eruption of molten lava

D) a seismic wave

\_\_\_\_\_\_\_\_\_\_8. The Ring of Fire refers to \_\_\_\_\_.

A) an active erupting volcano

B) the volcanoes surrounding the Pacific Ocean

C) the spreading that takes place on the ocean floor

D) the land once known as Pangea

\_\_\_\_\_\_\_\_\_\_9. Mountains on the Earth's surface form in random locations, with no relation to the Earth's plates.

A) true

B) false