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|  | **Plate Tectonic - Hazards** |  |

**DIRECTIONS:** Determine the Modified Mercalli Scale intensity and Richter magnitude of each of described earthquakes. Use the tables on the next page to guide your answers.

1. Felt quite noticeably by persons indoors, especially on upper floors of buildings. Many people do not recognize it as an earthquake. Standing cars may rock slightly. The vibration feels similar to the passing of a truck.

MERCALLI\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ RICHTER\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Damage is negligible in buildings of good design and construction: slight to moderate in well-built ordinary structures; considerable damage in poorly build or badly designed structures; some chimneys broken.

MERCALLI\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ RICHTER\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Not felt except by a very few under especially favorable conditions.

MERCALLI\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ RICHTER\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Felt by all, many frightened. Some heavy furniture is moved; a few instances or fallen plaster. Damage slight.

MERCALLI\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ RICHTER\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Damage slight in specially designed structures; considerable damage in ordinary substantial building with partial collapse. Damage great in poorly built structures. Fall of chimneys, factory stacks, columns, monuments, walls. Heavy furniture overturned.

MERCALLI\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ RICHTER\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Define the Mercalli Intensity Scale:
2. Define the Richter Magnitude Scale: