Regents Practical Review for Location an Epicenter Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Regents Review Date: \_\_\_\_\_\_\_\_\_\_\_\_\_ Period: \_\_\_\_\_

**W.S. – Regents Practical Review for Locating an Epicenter**

**Directions:** Read the following procedure carefully to locate the epicenter of the earthquake.

**Procedure**:

**Step 1**: The Seismic Station at Balboa Heights, Panama distance to the epicenter has already been drawn on the map on the back of this sheet. **3,200 km**

**Step 2**: Use the compass to draw a circle around *Boulder, Colorado (BC)* with a distance of **1,600 km**

**Step 3**: Use the seismogram data below to determine the *difference* in arrival time for the P-wave and the S-wave arrival times at *Mexico City, Mexico (MC)* and record that information below*.*

**Step 4**: Using the P- and S-wave Chart, determine the *distance* to the epicenter from *Mexico City, Mexico (MC)* and record that information below.

**Step 5**: Use the compass to draw the epicenter *distance* on the map on the back of this sheet for *Mexico City, Mexico (MC)*.

**Step 6**: Place and **X** on the map on the back of this sheet where the *location* of the epicenter is.

**Mexico City, Mexico (MC) Seismic Stations Data**



**Seismic Station C Time and Distance**

a) The difference in arrival time for the P-wave and  
 S-wave arrival time for *Mexico City, Mexico (MC)* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

b) Distance to the epicenter from *Mexico City, Mexico (MC)* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

