



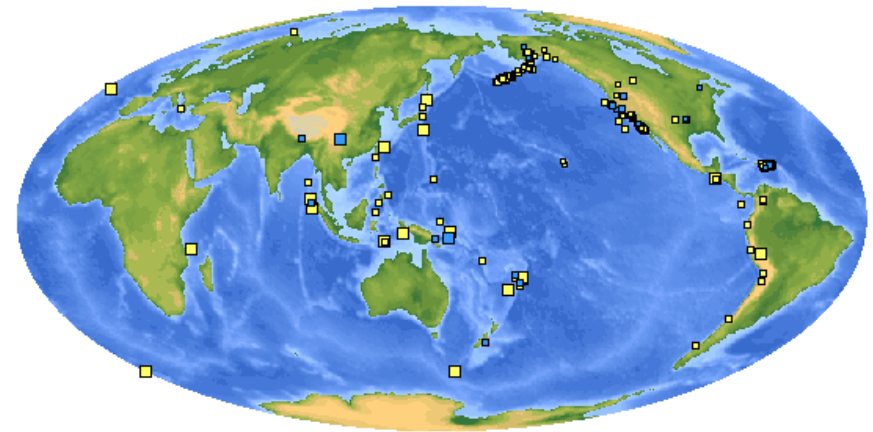
Ch 8 Review

Choose the letter that best answers the question or completes the statement.

1) Approximately how many earthquakes are strong enough to be felt each year worldwide?

- a) 75
- b) 1000
- c) 10,000
- d) 30,000

Mon Oct 18 19:07:24 UTC 2010 200 earthquakes on this map



2) What is the location on the surface directly above the earthquake called?

- a) **Epicenter**
- b) **Focus**
- c) **Magnitude**
- d) **Fault**

3) Through which Earth layer are S-waves NOT transmitted?

- a) Continental crust
- b) Ocean crust
- c) Inner core
- d) Outer core

4) The instrument that records earthquakes is called

- a) a seismogram.
- b) a seismologist.
- c) seismology.
- d) a seismograph.

5) Most of the information about Earth's interior was obtained by studying _____.

- a) Earthquakes
- b) Rocks of the ocean crust
- c) Volcanoes
- d) Rocks of the continental crust

6) What property that is different for P and S waves provides a method for locating the epicenter of an earthquake?

- a) Magnitude
- b) Location
- c) modes of travel
- d) speed

7) In areas where loosely consolidated materials are saturated with water, earthquakes can turn stable soil into a liquid during a process called

- a) **faulting.**
- b) **liquefaction.**
- c) **tsunamis.**
- d) **subsidence.**

8) Which seismic wave compress and expand (push and pull) rocks in the direction the waves travel?

- a) Surface waves
- b) P waves
- c) S waves
- d) Transverse waves

9) Which of the following causes earthquakes?

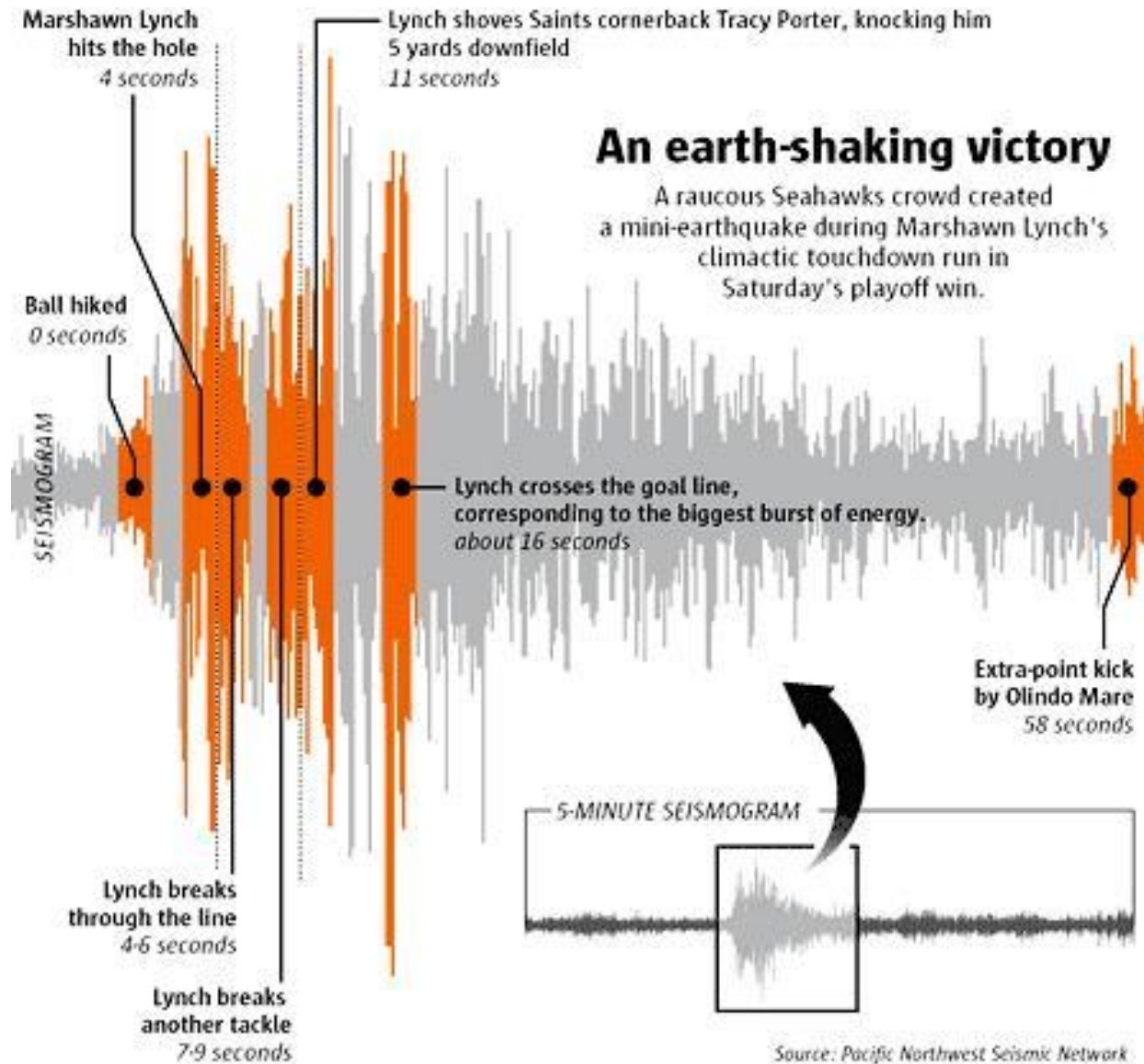
- a) Elastic rebound
- b) Richter scale
- c) Release of energy
- d) Vibrations

10) The Richter magnitude of an earthquake is determined from the _____.

- a) Total time of the earthquake
- b) Intensity of an earthquake
- c) Arrival times of the P waves and S waves
- d) Amplitude on a seismogram of the largest seismic waves.



<http://amazingstuff.co.uk/sport/amazing-touchdown-sparks-earthquake>



Source: Pacific Northwest Seismic Network
MARK NOWLIN / THE SEATTLE TIMES