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Chapter 8 Earthquakes and Earth's Interior

Section 8.2 Measuring Earthquakes (pages 222–227)

This section discusses types of seismic waves and how earthquakes are located and measured.

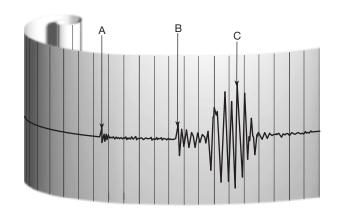
Reading Strategy (page 222)

Outlining As you read, fill in the outline with the important ideas in this section. Use the green headings as the main topics and the blue headings as subtopics. For more information on this Reading Strategy, see the **Reading and Study Skills** in the **Skills and Reference Handbook** at the end of your textbook.

Measuring Earthquakes				
I. Seismic Waves				
	A. P Waves			
	B			
	C			
11.				
	A			
	B. Seismograms			
III.				
	A. Richter Scale			
	B			
	C			
IV.				

Seismic Waves (page 222-223)

- **1.** Carthquakes produce two main types of seismic waves—body waves
 - and _____ waves.
- 2. The figure shows a typical recording of an earthquake. Select the correct letter in the figure that identifies each of the following types of seismic waves.
 - _____ surface wave
 - _____ S wave
 - _____ P wave



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- **3.** Circle the letter of the name of the recording of the three types of seismic waves in the figure on page 81.
 - a. seismograph b. seismogram c. seismic wave

Measuring Earthquakes (pages 225-226)

4. \bigcirc Two types of measurements scientists use to describe the size of

earthquakes are intensity and _____

Match each description with its term related to earthquake measurement.

 Description 5. magnitude scale the energy relea earthquakes 6. outdated scale fe magnitude of earthquakes 	sed by or measuring	Term a. intensity b. magnitude c. Richter scale d.moment magnitude scale		
7. Some measure of the size of seismic waves or amount of energy released at the earthquake source				
8. measure of the amount of earthquake shaking at a location based on damage				
 What measurement do scientists today use for earthquakes? Circle the correct answer. 				
a. Richter scale b.	. moment magnitude scale	c. modified Mercalli scale		

Locating an Earthquake (pages 226-227)

10. Is the following sentence true or false? On a seismogram, the greater the interval is between the arrival of the first P wave and the first S wave,

the greater the distance to the earthquake source.

11. Is the following sentence true or false? You can use travel-time graphs from two seismographs to find the exact location of an

earthquake epicenter. _____

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