



Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

1 The **strength** of an earthquake is described by the use of a **scale of 1 to 10**, where 1 is the weakest strength and 10 the strongest.

Geologists call this the

- A seismograph scale
- B Mohs' scale
- C Richter scale
- D specific gravity scale

2 There is a specific relationship between the magnitude of an earthquake (its Richter scale number) and the amount of energy released by the earthquake. For each increase of 1 on the Richter scale, the amount of energy released is 31.7 times larger. **How much more energy does an earthquake of magnitude 7 release than an earthquake of magnitude 5?**

**31.7 x 31.7**

- A 31.7 times
- B 63.4 times
- C 75 times
- D 1004.89 times

3 Geologists know that seismic waves from an earthquake anywhere on the earth's surface will travel through the earth. They have discovered that S-waves do not travel **straight through** the earth, but P waves do.

4 Studying seismograms **leads** to all of the following information **except** \_\_\_\_\_.



**PREVIEW**

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7

- A run inside for protection
- B stand against a building for support
- C lie face down away from buildings, trees, power lines, and other structures
- D find shelter in a steel building

buildings **more resistant** to earthquake damage?

- A super hard concrete
- B shock absorbers made of rubber and steel
- C thicker steel
- D thinner steel

9 Once an earthquake has **ended**,

- A it is once again safe to go into your house
- B significant damage can still occur
- C there will be no more earthquakes in that area
- D immediate dangers are essentially gone



10 In 1906, a magnitude 8 earthquake struck San Francisco, California. As seen in this picture, the destruction of the city was nearly complete. **Fire** consumed much of the city and did **more damage** than the earthquake itself. **Geologically speaking, why did fire prove to be so completely destructive?**

- A The fire trucks couldn't move around the city.
- B The buildings were made out of too much wood.
- C The earthquake occurred in the middle of summer.
- D The earthquake broke the underground water pipes.





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