

Nova Deadliest Earthquakes

Haiti

- 1. Describe the devastation that occurred in Haiti in January 2010.**
 - a) Massive earthquakes rattled the globe. 233,000 people were killed. Millions more were injured or orphaned.
- 2. How did scientists know that an earthquake was inevitable in Haiti?**
 - a) They saw a fault being loaded like a rubber band. There was an elastic strain on the fault. The last earthquake on that fault occurred about 250 years ago and it was building up elastic energy at 7mm per year. About 1.8 meters or almost 6 feet of stored strain.
- 3. Which type of plate boundary caused the Haitian earthquake?**
 - a) Transform plate boundary
- 4. How fast do plates move?**
 - a) About the same speed as your fingernails grow
- 5. How many times stronger is a magnitude 8.0 earthquake than none at all?**
 - a) 80 times larger
- 6. The faster the movement of plates the more frequent the earthquakes (true or false)?**
 - a) True

California

- 1. What is the name of the main fault that we have in California?**
 - a) San Andreas Fault
- 2. How long is the fault in California and does it move relatively slow or fast?**
 - a) 800 Miles; Fast. More than 3x faster at over an inch a year
- 3. The Northridge Earthquake occurred in 1994 on the San Andreas Fault was a magnitude 6.7 but causes _____ deaths and _____ billion dollars worth of damage.**
 - a) 60; 20
- 4. What is the Great Southern California Shakeout and why did people in Southern California go through this exercise?**
 - a) The Great Southern California Shakeout was a worst-case scenario created for a very large earthquake, a magnitude of 7.8

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