

Exponential and Logarithmic Functions Part 1

12 EARTHQUAKE MAGNITUDE

- a. A recent Earthquake in Turkey was 7.0 on Richter scale. Two years back there was one more earthquake having magnitude 8.3. How many times more intense the previous earthquake?
- b. What is the magnitude of an earthquake whose intensity on seismography is 1 cm? Given standard earthquake magnitude = 10^{-4} microns.
- c. The magnitude of Earthquake in Pakistan is 6. Find its seismographic intensity.
- d. Earthquake A has magnitude 5 times stronger than that of Earthquake B. Earthquake B is estimated 4 on Richter scale. What is the magnitude of Earthquake A on Richter scale?
- e. On a Richter scale, earthquake is estimated to be 3 and B is estimated to be 1.5. How much stronger is earthquake A?



Make sure that you ask for help if you don't understand completely! :)