# Name:

**Date:**

**Magnitude of the Richter Scale – Richter Scale Worksheet Answer Key**

# Instructions

Complete the table below by calculating the **Total Number of Seconds** each level represents.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Level** | **Second(s)** | **Second(s) in Scientific Notation** | **Total Seconds** | **Other Units of Time (approximate)** |
| 1 | 1 | 1 x 100 | **1** | 1 second |
| 2 | 1 x 10 | 1 x 101 | **10** | 10 seconds |
| 3 | 1 x 10 x 10 | 1 x 102 | **100** | 1 minutes 40 seconds |
| 4 | 1 x 10 x 10 x 10 | 1 x 103 | **1000** | 15 minutes |
| 5 | 1 x 10 x 10 x 10 x 10 | 1 x 104 | **10,000** | 2 hours 45 minutes |
| 6 | 1 x 10 x 10 x 10 x 10 x 10 | 1 x 105 | **100,000** | 1 day 4 hours |
| 7 | 1 x 10 x 10 x 10 x 10 x 10 x 10 | 1 x 106 | **1,000,000** | 12 days |
| 8 | **1 x 10 x 10 x 10 x 10 x 10 x 10 x 10** | 1 x 107 | **10,000,000** | 115 days |
| 9 | **1 x 10 x 10 x 10 x 10 x 10 x 10 x 10 x 10** | 1 x 108 | **100,000,000** | 3 years 2 months 1 day |

Natural Disasters: Lesson 3, Magnitude of the Richter Scale – Worksheet Answer Key