Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period: \_\_\_\_\_\_\_\_\_\_ Number: \_\_\_\_\_\_\_\_\_

Math 8/8H

**HW 2.3c**

1. In 2010, the world population was about 7 x 109. The population of the United States was about 3 x 108. About how many times larger is the world population than the population of the US?
2. The area of the Pacific Ocean is 6.0 x 107 square miles. The area of the Atlantic Ocean is

2.96 x 107 square miles. About how many times greater is the area of the Pacific Ocean than the Atlantic Ocean?

*The table shows the maximum amounts of lava in cubic meters per second that erupted from four volcanoes.*

|  |  |
| --- | --- |
| **Volcanic Eruptions** | |
| **Volcano, Year** | **Eruption Rate (m3/s)** |
| Mount St. Helens, 1980 | 2.0 x 104 |
| Ngauruhoe, 1975 | 2.0 x 103 |
| Hekla, 1970 | 4.0 x 103 |
| Agung, 1963 | 3.0 x 104 |

1. How many times greater was the Mount St. Helens eruption than the Ngauruhoe eruption?
2. How many times greater was the Hekla eruption than the Ngauruhoe eruption?
3. How many times smaller was the Mount St. Helens eruption than the Agung eruption?