**2.4: Multiply Real Numbers / 2.6 Divide Real Numbers**

**Goals: \***Add numbers with same signs

 \*Add numbers with different signs

**Rules:** P · P = P P ÷ P = P

 P · N = N N · P = N P ÷ N = N N ÷ P = N

 N · N = P N ÷ N = P

**Ex:**  –3(6) **Ex:** 2(–4)(–3)  **Ex:** $-\frac{1}{2}\left(-4\right)\left(-3\right)$ **Ex:** –2(–7)

**Ex:** –0.5(–4)(–9) **Ex:** $\frac{4}{3}\left(-3\right)\left(7\right)$ **Ex:** –16 ÷ 4

**Ex:** $-20÷\frac{5}{3}$ **Ex:** $-\frac{3}{8}÷\left(-\frac{3}{10}\right)$

**Multiplicative Inverse:**

**Ex:** In 1900 the elevation of Mono Lake, CA was about 6416 feet. From 1900 to 1950, the average rate of change in elevation was about –0.12 feet/year. From 1950 to 2000 the average rate of change was about –0.526 feet/year.

1. Find the elevation in the year 1950.
2. Find the elevation in the year 2000.

**Ex:** The table gives the daily minimum temperatures (in degrees Fahrenheit) in Barrow, Alaska, for the first five days of February 2004. Find the mean daily minimum temperature.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Day in Feb.** | 1 | 2 | 3 | 4 | 5 |
| **Min. Temp.** | –21 | –29 | –39 | –39 | –22 |