

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

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

\*Add numbers with different signs

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**Rules:**  $P \cdot P = P$

$P \div P = P$

$P \cdot N = N$        $N \cdot P = N$

$P \div N = N$        $N \div P = N$

$N \cdot N = P$

$N \div N = P$

**Ex:**  $-3(6)$

**Ex:**  $2(-4)(-3)$

**Ex:**  $-\frac{1}{2}(-4)(-3)$

**Ex:**  $-2(-7)$

**Ex:**  $-0.5(-4)(-9)$

**Ex:**  $\frac{4}{3}(-3)(7)$

**Ex:**  $-16 \div 4$

**Ex:**  $-20 \div \frac{5}{3}$

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

**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.

a) Find the elevation in the year 1950.

b) 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.

|                    |     |     |     |     |     |
|--------------------|-----|-----|-----|-----|-----|
| <b>Day in Feb.</b> | 1   | 2   | 3   | 4   | 5   |
| <b>Min. Temp.</b>  | -21 | -29 | -39 | -39 | -22 |