2.4: Multiply Real Numbers / 2.6 Divide Real Numbers

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

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:** $-40 \div (-10)$ **Ex:** $-16 \div 4$ **Ex:** $36 \div (-12)$

Would the following answers be positive or negative?

Ex: $(-2)(-6)(-8)(-4)$ **Ex:** $(-2)(6)(-8)(-4)$

Is there a shortcut to determining if the final answer will be positive or negative?

Multiplicative Inverse:

Ex: $-20 \div \frac{5}{3}$　　　　　　　　**Ex:** $\frac{4}{3}(-3)(7)$　　　　　　　　**Ex:** $-\frac{3}{8} \div \left(-\frac{3}{10}\right)$

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.

Day in Feb.	1	2	3	4	5
Min. Temp.	−21	−29	−39	−39	−22