Multiplying and Dividing Real Numbers

Sign Rules for Multiplying and Dividing
1. Perform the multiplication and division.
2. Count the negative signs.
3. An even number of negative signs gives a positive answer.
4. An odd number of negative signs gives a negative answer.

Example 1: $-8(5)$ Example 2: $-6(-11)$ Example 3: $-\frac{1}{8}\left(-\frac{1}{3}\right)$

The reciprocal or multiplicative inverse is

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Find the reciprocal or multiplicative inverse:

Example 4: 100 Example 5: -8 Example 6: $\frac{2}{3}$

Example 7: $\frac{20}{-10}$ Example 8: $\frac{0}{-9}$ Example 9: $\frac{-5}{0}$

Example 10: $\frac{6+(-2)^2}{4-9}$ Example 11: $\frac{|-3+6|+|-2+7|}{|-2\cdot 2|}$

Example 12: $x = -5, y = -3$ $x^2 - 2y^2$