MATOO28 ~ Lesson 6
Work the following examples as you listen to the recorded lecture.

## 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: $-8(5) \quad$ Example 2: $-6(-11) \quad$ Example 3: $-\frac{1}{8}\left(-\frac{1}{3}\right)$
The reciprocal or multiplicative inverse is

Find the reciprocal or multiplicative inverse:
Example 4: $100 \quad$ Example 5: $-8 \quad$ Example 6: $\frac{2}{3}$

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

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

Example 12: $\quad x=-5, y=-3 \quad x^{2}-2 y^{2}$

