Are there any numbers that are reciprocals of themselves?

If yes, which ones?

ONE: $1 = \frac{1}{1}$ Reciprocal is $\frac{1}{1} = 1$

NEG. ONE: $-1 = \frac{-1}{1}$ Reciprocal is $\frac{1}{-1} = -1$

Is each statement true or false? If false, give a counterexample.

The reciprocal of each whole number is a whole number.

False reciprocal of 5, a whole #, equals $\frac{1}{5}$, not a whole #.

The opposite of each natural number is a natural number.

False. 1 is a nat #, it's opposite is -1, which is not a natural #

There is no whole number that has an opposite that is a whole number.

False. Zero has an opposite of zero which is still whole

There is no integer that has a reciprocal that is an integer.

False. 1 is an Interger
It's reciprocal is also an int (1)

The product of two irrational numbers is an irrational number.

False $\sqrt{24}$ is irrational. But $\sqrt{24} \cdot \sqrt{24} = 24$ this is rat.

Factor. $49b^6 - 9g^8$ → b^6 & g^8 are perfect sq. if exponents are even.

$(7b^3 + 3g^4)(7b^3 - 3g^4)$

What is the difference between these two terms?

Equation

has an "=" sign

Expression

No "=" sign

You went to the store and bought some apples at $1.95 each and some pears at $2.29 each.

Get a small white board, marker, and rag.

1. Write an expression to model this statement. Define your variables.

$1.95a + 2.29p$

a = # apples

p = # pears

2. Write an equation to model this statement. Define your variables.

$T = 1.95a + 2.29p$

a = # apples

p = # pears

T = TOTAL COST