

Use your class notes to complete the assignment on the next page:

Scientific Notation: convert decimals by moving them to the first Natural number in the number. count the number of "places" that you are moving the decimal and those number of places become your exponent. The exponent is negative if you moved it to the right and it is positive if you moved it to the left.

Percent: convert a decimal to a percent by moving the decimal two places to the right.

Fraction: convert a fraction to decimal by dividing the numerator by the denominator.

Decimal: convert a decimal to a fraction by looking at the last number in the decimal and making its' place value the denominator of you fraction. Simplify whenever necessary.

Number Types

Natural	Counting numbers excluding "0" 1,2,3,4,5,6,7,8,9...
whole numbers	all counting numbers including "0" 0,1,2,3,4...
Integers	+ and - whole numbers
Rational	Any number that can be written as a ratio, terminating and repeating decimals.
ational numbers	Any number that can NOT be written as a ratio and non-terminating, non-repeating decimals

Directions: re-write the number words in the various notations listed in the first columns.

Notations	nine-thenths	8 billion	three and sixty-eight hundredths	
Fractions				
Decimals				
Percent				.068%
Scientific				
ponential	2^3	3^{-3}	4^4	2^{-4}

Special note for exponents: Remember all you have to do here is evaluate the exponent.