

Advanced Numbers * Extended Concepts 3 A

Definitions should be re-stated or paraphrased textbook definitions not word for word!
After completing Basic Knowledge Activities, Collaborate with classmates, Get or Give Help!
Real & Virtual Manipulatives help to achieve knowledge for Concepts & Problems!

1. Define and provide an example of the Counting (Natural) Numbers! **Use PP to review!**
The Counting (Natural) Numbers are used to identify items in a ranked order.
1,2,3,4,5,6, etc... The Counting (Natural) Numbers are an infinite (non-ending) set of numbers.
2. Define and provide an example for the Whole Numbers! **Use PP to review!**
The Whole Numbers are used in calculations where a result might be Zero (0)!
0,1,2,3,4,5,6, etc... The Whole Numbers are an infinite (non-ending) set of numbers.
3. Define and provide an example for Rational Numbers! **Use PP to review!**
The Rational Numbers represent the set of numbers that can be represented as a Fraction!
Rational Numbers: Whole, Common Fractions, Mixed Numbers, Decimals, Percents, etc...
4. Define and provide an example for the Decimal Numbers! **Use PP to review!**
The Decimal Numbers are a special notation for fractions and Mixed Numbers with Denominators which are Powers of Ten. These powers of ten might be Positive or Negative.
Examples: .4, .08, .003, etc... 2.5, 6.07, 1.072, etc...
5. Define and provide an example of the Integers or Signed Numbers! **Use PP to review!**
The Integers or Signed Numbers are Whole Numbers which are Negative or Positive.
These Integers are represented on the Number Line both Left and Right of Zero.
...-3, -2, -1, 0, +1, +2, +3, ...
6. Define and provide an example of the Real Numbers! **Use PP to review!**
The Real Numbers would need to be looked up using Wikipedia or a Math Web Site.
The include all of the Numbers mentioned above which can be placed on a Real Number Line!
7. Define and provide an example of Large and Small Scientific Notation! **Use PP to review!**
Scientific Notation is used to express Very Large and Very Small Numbers.
Examples: 4, 527,000 = 4.5×10^6 .0000379 = 3.8×10^{-4}
8. Define and provide an example of the Cartesian Coordinate System & include explained parts!
The Cartesian (Rectangular) Coordinate System is a scheme to position ordered Integer pairs
On a organized plane using H & V Axis, Quadrants, Origin, Ordered Pairs, Procedure.

Use WWW Links below to enhance understanding of concepts above:

[AAA Mathematics Online](#) [World of Mathematics](#) [A+ Mathematics Web Site](#)
[Math Forum@Drexel](#) [Cool Mathematics Site](#) [GoMath Online Help](#)
[MathWords](#) * [WebMath](#) * [MathWorld](#) * [MathStuff](#) * [All Math Kids](#)
[GLSHP](#) * [NLVM](#) * [BRKCC](#) * [CTME](#) * [OIMAG](#)