

- Basic operations (addition, subtraction, multiplication, division) with whole numbers, integers, and decimals
- Understanding of the base-10 place value system
- Relationship between various sets of numbers (natural #'s, whole #'s, integers, rational #'s, real #'s, etc.)
- Various properties of sets of numbers (associative, commutative, identity, etc.)

- Familiarity with fractions and fraction operations
- Understanding of ratios, percents, and proportions
- Interval and set builder notation (i.e. parentheses, brackets, $<$, $>$, etc.)

Prerequisites for ULC 147

***Students must be fluent with/have mastered all of the concepts listed prior to taking ULC 147.**

Students must have taken *at least two* courses in a standard high school mathematics sequence (Algebra, Geometry, & Algebra II/Intermediate Algebra) to be placed in ULC 147. Otherwise, students should be placed in ULC 146.

Basic
Arithmetic

ULC

147

Graphing

Algebra

- Ability to read and interpret various types of graphs
 - Bar
 - Line
 - Pie
 - Scatter
- Ability to create various types of graphs
 - Bar
 - Line
 - Scatter
- Awareness that graphs are used to model real-world situations
- Connection between graphs and equations

- Familiarity with basic algebra terms (variable, coefficient, exponent, etc.)
- Understanding of a variable as representing multiple values (or no values)
- Awareness that equations can model real-world situations