

MATH 100 PRE-REQUISITE SKILLS

ARITHMETIC

1. Arithmetic skills – add, subtract, multiply, divide rational numbers.
2. Round numbers.
3. Simplify fractions.
4. Find prime factorization of natural numbers.
5. Convert mixed numbers to improper fractions.
6. Convert fractions to decimals and vice versa.
7. Identify equivalent fractions
8. Find least common multiple of a list of whole numbers.
9. Give the square root of perfect squares up and including 100

PERCENT

1. Convert percents to decimals or fractions and vice versa.
2. Solve a percent problem with the percent, base, or amount unknown..

GEOMETRY

1. Calculate circumference and area of circles given the radius.
2. Calculate perimeter and area of rectangle and triangles.
3. Identify appropriate units for length, area, and volume
4. Set up a proportion relating sides of similar triangles.
5. Use Pythagorean Theorem to find sides of right triangles.

PRE-ALGEBRA

1. Evaluate a^n for natural numbers n .
2. Simplify expressions using exponent properties (natural number exponents only).
3. Solve linear equations in one variable.
4. Multiply polynomials by monomials.
5. Add like terms in polynomial expressions.
6. Evaluate an expression.
7. Plot real numbers on the number line.
8. Identify correct order relationships between rational numbers including use of inequality symbols

GRAPHS

1. Plot an ordered pair in a rectangular coordinate system.
2. Identify coordinates of a given point in a rectangular coordinate system.
3. Translate verbal phrases into mathematical expressions.
4. Interpret graphical information from bar graphs, pie charts, *etc.*