

PRIMARY MATHEMATICS – GRADE 8

Basic Concepts for Placement Test (from grade 8 to 9)

School Year: 2010 - 2011

1. Algebraic Expression :

Expand and reduce polynomials

Factorize using either the common or Remarkable identities

Fractional expression: domain of definition , Simplify ,

Solve equations and inequations

Numerical value , Powers and Square root

2. Analytical Geometry :

Coordinate system: midpoint, symmetry with respect to a point and to a line, orthogonal projection

Geometry :

Properties of special parallelograms (square , rectangle, rhombus), trapezoid

Circle, relative positions of 2 circles, a circle and a line, Arcs and Angles.

Midpoint theorem

Pythagoras' theorem

Statistics:

Statistical vocabularies : frequency , relative frequency, percentage, angles in degree increasing cumulative frequency

Bar graph , polygon, and circular graph

Proportion