

## **PRIMARY MATHEMATICS – GRADE 7**

### **Basic Concepts for Placement Test (from grade 7 to 8)**

School Year: 2010 - 2011

#### **1. Operations on Decimals :**

Adding , subtracting , multiplying and dividing decimals ( signed decimals)

Compare and order signed numbers

#### **2. Fractions :**

Add , subtract, multiply, and divide fractions, Give answer in the simplest form

The prime factorization of a natural numbers

Least Common Multiple and Greatest Common Factor

#### **3. Algebraic Expression :**

Expand and reduce algebraic expression

Factorize polynomials ( the common monomial or the common factor)

Solve equations and check solutions

#### **4. Analytical Geometry :**

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

##### **Geometry :**

Congruent triangles, homologous elements

Types of angles: adjacent, complementary...

#### **5. Statistics :**

Statistical vocabularies : frequency , relative frequency , percentage

Bar graph , polygon

Proportion