## Grade 7 Mathematics

### Performance Level Descriptors

#### Level III: Accomplished Academic Performance

**Students at Complexity Level 3 can:**
- generate and solve a variety of multiplication problems involving patterns of 100
- generate whole- and mixed-number labels for an unnumbered ruler to measure a variety of items to the half inch
- compare bars of data on a variety of graphs to determine relationships
- determine the range and mode based on data presented in graphs

**Students at Complexity Level 2 can:**
- match models of fractions to their written form
- identify the location of a variety of row and seat numbers
- use various nonstandard units to measure length to the nearest whole unit
- identify the mode of sets of data presented in graphs

#### Level II: Satisfactory Academic Performance

**Students at Complexity Level 3 can:**
- model fractions and record them in their lowest terms
- generate and solve multiplication problems involving patterns of 100
- generate whole- and mixed-number labels for an unnumbered ruler to measure an item to a half inch
- determine the relationship between the perimeters of two different-sized rectangles
- compare bars of data on a graph to determine relationships
- determine the reason a three-dimensional geometric figure takes up more space than a two-dimensional geometric figure
- determine the range and mode based on data presented in a graph

**Students at Complexity Level 2 can:**
- match a model of a fraction to its written form
Students at Complexity Level 2 can (continued):

- identify the answers to multiplication problems involving patterns of 10
- identify the location of a specified row and seat number
- use nonstandard units to measure length to the nearest whole unit
- add a new bar to a graph to represent additional data
- identify the geometric figure created when a figure is folded
- identify the mode of a set of data presented in a graph

Students at Complexity Level 1 can:

- participate in dividing a whole into two equal parts
- experience the increase in a pattern involving addition
- participate in placing items horizontally in adjacent containers
- respond to items of different lengths
- respond to the columns of an object graph containing the most objects and the least objects
- participate in forming new shapes using a real-life object

Level I: Developing Academic Performance

Students at Complexity Level 3 can:

- model fractions
- determine the perimeter of a rectangle
- determine the range for a set of organized data

Students at Complexity Level 2 can:

- construct a whole from its fractional parts
- model a multiplication equation
- identify the location of a seat when given the row number

Students at Complexity Level 1 can:

- acknowledge a whole item
- acknowledge the position of an object