Tentative Test Date:

**Unit 5 Study Guide** – Representing and Comparing Fractions

**McGraw Hill Lessons:**

* Chapter 10-1 Naming Fractional Parts
* Chapter 10-2 Parts of a Whole
* Chapter 10-3 Parts of a Set
* Chapter 10-4 Problem-Solving Investigation
* Chapter 10-5 Fractions on the Number Line
* Chapter 10-6 Equivalent Fractions
* Chapter 10-7 Fraction as One Whole
* Chapter 10-8 Comparing and Ordering Fractions
* Chapter 12-2 Draw Scaled Picture Graphs
* Chapter 12-5 Draw and Analyze Line Plots
* Chapter 12-6 Measure to Halves and Fourths of an Inch

**In this unit, students will:**

● Develop an understanding of fractions, beginning with unit fractions.

● View fractions in general as being built out of unit fractions, and they use fractions along with visual fraction models to represent parts of a whole.

● Understand that the size of a fractional part is relative to the size of the whole. For example, 1/2 of the paint in a small bucket could be less paint than 1/3 of the paint in a larger bucket, but 1/3 of a ribbon is longer than 1/5 of the same ribbon because when the ribbon is divided into 3 equal parts, the parts are longer than when the ribbon is divided into 5 equal parts. Students are able to use fractions to represent numbers equal to, less than, and greater than one.

● Solve problems that involve comparing fractions by using visual fraction models and strategies based on noticing equal numerators or denominators.

● Recognize that the numerator is the top number (term) of a fraction and that it represents the number of equal-sized parts of a set or whole; recognize that the denominator is the bottom number (term) of a fraction and that it represents the total number of equal-sized parts or the total number of objects of the set

● Explain the concept that the larger the denominator, the smaller the size of the piece

● Compare common fractions with like denominators and tell why one fraction is greater than, less than, or equal to the other

● Represent halves, thirds, fourths, sixths, and eighths

● Draw a scaled bar and picture graph and answer questions

● Make a line plot using rulers with halves and fourths of inch

**Web Resources**

**(IXL): Understand fractions**

X.1-9, X.13, X.15, X.17

**(IXL): Equivalent fractions**

Identifying equivalent fractions: Y.1 – Y.6

**(IXL): Compare fractions**

Comparing: Z.1 – Z.6

**(IXL): Operations with fractions**

Unit fractions: AA.1-3, AA.6-8

X.

**Vocabulary**

**\*numerator \*denominator**

**\*unit fraction \*whole number**

**\*equivalent \*number line**

**\*picture graph \*bar graph**

**\*line plot**