Study Review
Fractions

The following are concepts and skills that you will need to know to be successful on a chapter test. If you are unsure of any of these, use the One Page Reviews to jog your memory or go to the book, *Math, you can do it!*[1]

Equivalent Fractions

Multiply both the numerator and denominator by the same number.

Reducing (Simplifying) Fractions

Use the Rules of Divisibility to divide both numerator and denominator by the SAME number.

Comparing (Ordering) Fractions

Make equivalent fractions (common denominator) and order the numerators.

ALTERNATIVE – cross multiply or mental

Convert Mixed Numbers to Improper Fractions

Multiply the Whole number by the denominator and add that to the numerator. Place that result over the original denominator.

Convert Improper Fractions to Mixed Numbers

Divide the numerator by the denominator and place the remainder over the original denominator.

Covert Fractions to Decimals

Divide the numerator by the denominator and add zeros depending upon how many places are being requested.

Adding/Subtracting Fractions

Find a common denominator
Make equal fractions
Add/subtract numerators
Bring down the denominator
Simplify

Subtraction with Borrowing
Find a common denominator
Make equivalent fractions
Borrow one from the whole number in terms of CD & combine
Subtract numerators
Bring down denominator
Simplify

Least Common Multiple (BIG number)

Use the factor tree, write ALL the factors and use the LARGEST exponent.

Greatest Common Factor (small number)

Use the factor tree, write only factors they have in common and use the smallest exponent.

Multiplying Fractions

Convert any Mixed Numbers to Improper Fractions
Cancel, if possible
Multiply numerators
Multiply denominators
Simplify

Dividing Fractions

Convert any Mixed Numbers to Improper Fractions
Invert the divisor (2nd #)
Cancel, if possible
Multiply numerators
Multiply denominators
Simplify