

Final Exam

Expectations: You will be expected to be able to:

- identify and illustrate integers with two-colored chips and vector number lines
- illustrate *addition* and *subtraction* of integers using two-colored chips and vector number lines
- illustrate *multiplication* and *division* of integers using two-colored chips
- identify and illustrate *proper* and *improper fractions*.
- identify and illustrate *part-whole*, *part-group*, *division*, and *ratio models* for common fractions.
- identify and illustrate *equivalent fractions*.
- illustrate *addition*, *subtraction*, *multiplication*, and *division* of common fractions using pattern block, fraction strips, and fraction circles
- illustrate and apply *the addition algorithm* for common fractions algebraically.
- illustrate and apply *the "straight" division algorithm* for common fractions numerically and algebraically.
- illustrate and apply *the "common denominator" division algorithm* for common fractions numerically and algebraically.
- identify and illustrate *terminating* and *repeating decimals*.
- identify *purely periodic decimals*.
- identify the *Property of Density for Rational Numbers*.
- identify the length of a line segment on a geoboard
- construct a line segment of any specified length on a geoboard
- illustrate *addition*, *subtraction*, *multiplication*, and *division* of decimal numbers using base-ten blocks
- order decimal numbers
- identify terms related to graphs, statistics, and probability
- calculate measures of central tendency and dispersion
- calculate probabilities