Transition to Pre-Algebra

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2015-2016   Period 3,4,5

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COURSE DESCRIPTION

In the Transition to Pre-Algebra course, the instructional time will focus on six critical areas: (1) completing understanding of division of fractions; (2) connecting ratio and rate to whole number multiplication and division, and using concepts of ratio and rate to solve problems, which includes negative numbers; (3) writing, interpreting, and using expressions and equations; (4) developing understanding of statistical thinking; (5) extending the concept of area to surface area and volume; and (6) developing understanding of statistical thinking.

COURSE OBJECTIVES

Students should:
- Understand ratio concepts and use ratio reasoning to solve problems.
- Apply and extend previous understandings of multiplication and division to divide fractions by fractions.
- Compute fluently with multi-digit numbers and find common factors and multiples.
- Apply and extend previous understandings of numbers to the system of rational numbers.
- Apply and extend previous understandings of arithmetic to algebraic expressions.
- Reason about and solve one-variable equations and inequalities.
- Represent and analyze quantitative relationships between dependent and independent variables.
- Solve real-world and mathematical problems involving area, surface area, and volume.
- Develop understanding of statistical variability.
- Summarize and describe distributions.
- Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational numbers.
- Analyze proportional relationships and use them to solve real-world problems and mathematical problems.

UNITS OF STUDY

- Operating with Positive Rational Numbers
- Using Expressions and Equations
- Applications of Geometry Numbers
- Ratios and Rates
- Understanding Positive and Negative Numbers
- Algebraic Reasoning
- Statistics and Distributions
- Operating with Rational Numbers
- Proportional Relationships

COURSE POLICIES AND REQUIREMENTS

GRADING

Summative Assessments:
Chapter Tests, Unit Tests

60% Total

Formative Assessments:
Quizzes, Daily Assessments

30% Total

Homework:

10% Total

MATERIALS

Binder, Agenda, Notebook, Pencils, Workbook, Calculator

EXPECTATIONS OF STUDENTS

To be respectful to all other individuals and all propertyTo be prepared and on time with appropriate materials and assignments. To be responsible for any missed work and notes. To be motivated to learn and accept challenges.

EXTRA HELP

Monday and Thursday 2:50 – 3:10

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