

Exam Title: 1200400 Intensive Math

Courses Assessed by this Exam: Intensive Math

Key Vocabulary: area, equation, rectangle, expression, leading coefficient, ratio, surface area, right circular cylinder, multiplication/addition properties of equality, division/subtraction properties of equality, system of equations, inequality, system of inequalities, domain, relation, function, ordered pairs, range, quadrant, range, relative minimum, interval, integers, real numbers

Student Tasks:

- Use units to understand problems/guide solutions
- Define appropriate quantities for descriptive modeling
- Interpret parts of an expression, such as, terms, factors, and coefficients
- Create equations/inequalities in 1 variable to solve problems
- Rearrange formulas to solve for specific variables
- Solve linear equations/inequalities
- Solve system of equations
- Interpret real world problems using system of equations
- Represent constraints by equations and interpret viability of solutions
- Explain why the x-coordinates of the intersection of two equations are the solutions of $f(x)$ and $g(x)$
- Understand the definition of a function and the relationship between its domain and range
- Use function notation, evaluate functions, and interpret statements using function notation in terms of context
- Interpret parameters in a linear functions in terms of a context
- Determine the domain, range, relative maximum, and relative minimum of a function from a graph/table
- Determine the appropriate domain for the function in a given context
- Determine the average rate of change
- Create and graph equations in two or more variables
- Construct linear functions given graphs, 2 input-output pairs or relationship description