

Math Grade 7 Final

(Student name) scored at the *Advanced* level in Math. Students scoring at this level generally exhibit the ability to

- translate problems into and solve two-step equalities and inequalities;
- evaluate algebraic expressions containing exponents and square roots;
- apply proportional reasoning to solve complex problems including applications and comparisons involving positive rational numbers;
- understand and draw conclusions based on the relationship between measures of polygons and circles, such as change in perimeter vs. change in area and change in radius vs. change in circumference;
- determine trends and make predictions based on various displays of discrete and continuous data;
- describe basic exponential sequences and patterns and describe and apply rules used to determine function outputs, given their inputs;
- order and compare measurements within and between measurement systems, including temperature; and
- apply concepts of transformations involving reflections and translations on a coordinate grid.

(Student name) scored at the *Mastery* level in Math. Students scoring at this level generally exhibit the ability to

- solve multi-step problems involving non-negative rational numbers and negative integers;
- evaluate simple algebraic expressions using substitution;
- describe the angle and measurement properties of polygons and circles;
- graph solutions of equations and inequalities and make comparisons of positive rational numbers on a number line;
- determine area and perimeter of simple composite geometric shapes;
- describe rules used to determine various arithmetic and geometric sequences;
- describe and interpret a variety of graphs that display discrete and continuous data;
- determine experimental probability; and
- order measurements within and between measurement systems.

(Student name) scored at the *Basic* level in Math. Students scoring at this level generally exhibit the ability to

- solve one- and two-step equations and inequalities;
- calculate circumference and area of circles;
- estimate and compute equivalent fractions, percents, and decimals;
- recognize and extend patterns involving fractions and negative numbers;
- convert between common measurements in the same system;
- draw and identify angles and measurements in simple polygons and circles;
- demonstrate a conceptual understanding of the differences between discrete and continuous data;
- compute simple probabilities and use basic mathematical terms associated with probability, such as *event* and *favorable outcomes*; and
- recognize geometric transformations.

(Student name) scored at the *Approaching Basic* level in Math. Students scoring at this level generally exhibit the ability to

- solve single-step problems involving positive rational numbers;
- match algebraic equations and inequalities to verbal statements;
- order measurements within the same system;
- identify points in all four quadrants of a coordinate grid;
- interpret discrete data from a variety of graphs; and
- extend simple number patterns.

(Student name) scored at the *Unsatisfactory* level in Math. Students scoring at this level have not demonstrated the fundamental knowledge and skills needed for the next level of schooling. Students scoring at this level need to develop the ability to

- solve single-step problems involving positive rational numbers;
- match algebraic equations and inequalities to verbal statements;
- order measurements within the same system;
- identify points in all four quadrants of a coordinate grid;
- interpret discrete data from a variety of graphs; and
- extend simple number patterns.