

Grade 3 Proficiency Level Descriptors

Minimal

Students performing at the minimal level are beginning to apply their mathematics knowledge and skills. They are learning to identify the relationships among whole numbers using rounding, place value, and symbols, but have difficulty ordering and comparing fractions using models, pictures, number lines, and symbols. They inaccurately compute 3-digit addition and subtraction, and simple multiplication and division problems. Students have difficulty recognizing and solving simple number relationships, and recognizing, creating, or extending growing patterns. They begin to recognize, but do not yet use the commutative, associative, zero and identity properties of addition and multiplication. Students attempt to identify and classify polygons by sides and angles, and have a limited understanding of how reflection, translation, and rotation determine congruence. They use inappropriate units and tools to estimate, measure, and solve problems and have difficulty describing the relationship between basic metric and customary units. They are starting to solve problems involving perimeter, but have a limited understanding of comparing and measuring objects. Students are developing skills to read and interpret tables, graphs, and charts. They misinterpret results of events to predict the likelihood of specific outcomes.

Partial

Students performing at the partial level inconsistently apply their mathematics knowledge and skills. They may be able to identify and demonstrate the relationships among whole numbers using rounding, place value, and symbols, but inconsistently order and compare fractions using models, pictures, number lines and symbols. They compute some 3- and 4-digit addition and subtraction, and simple multiplication and division problems. Students recognize and solve some simple number relationships including expressions, equations, and inequalities. They inconsistently recognize, create, or extend growing patterns. They are beginning to recognize and use the commutative, associative, distributive, zero and identity properties of addition and multiplication. Students identify and classify polygons by sides and angles, and occasionally recognize reflection, translation, and rotation to determine congruence. They inconsistently use appropriate units and tools to estimate, measure, and solve problems, and attempt to describe the relationship between basic metric and customary units. Students are acquiring skills to estimate, measure, and solve problems involving perimeter, and inconsistently read and interpret data using tables, graphs and charts. They inconsistently use results of events to predict the likelihood of specific outcomes.

Grade 3 Proficiency Level Descriptors

Sufficient

Students performing at the sufficient level apply mathematics knowledge and skills appropriately. They identify and demonstrate the relationships among whole numbers using rounding, place value, and symbols, and order and compare fractions using models, pictures, number lines and symbols. They compute 3- and 4-digit addition and subtraction problems, and simple multiplication and division problems. Students recognize and solve simple number relationships including expressions, equations, and inequalities. They create, represent, and extend growing patterns, while recognizing and using the commutative, associative, distributive, zero and identity properties of addition and multiplication. Students identify, describe, and classify polygons by sides and angles. They recognize and apply reflection, translation, and rotation to determine congruence. They use appropriate units and tools to estimate, measure, and solve problems, and also describe the relationship between basic metric and customary units. Students estimate, measure and solve problems involving perimeter. They read, interpret, and make predictions about data using simple tables, graphs and charts. Students use results of events to predict the likelihood of specific outcomes.

Substantial

Students performing at the substantial level consistently apply mathematics knowledge and skills appropriately. They use and demonstrate the relationships among whole numbers using rounding, place value, and symbols to solve problems, and effectively order and compare fractions using models, pictures, number lines and symbols. They consistently compute 4-digit addition and subtraction, and simple multiplication and division problems. Students consistently recognize and solve number relationships including expressions, equations, and inequalities. They create, represent, extend, and analyze growing patterns, and use the commutative, associative, distributive, zero and identity properties of addition and multiplication. Students analyze, describe, and classify polygons by sides and angles, consistently recognizing and applying reflection, translation, and rotation to determine congruence. They accurately use appropriate units and tools to estimate, measure, and solve problems and describe the relationship between basic metric and customary units. Students precisely estimate, measure, and solve problems involving perimeter, as well as interpret and make predictions about data using tables, graphs and charts. They use concepts of probability to effectively analyze results of events to predict the likelihood of specific outcomes.