

3rd Grade Mathematics

| Academic Warning | Approaches Standard | Meets Standard | Exceeds Standard | Exemplary |
|---|---|---|---|---|
| <p>A student scoring at the academic warning level always performs inconsistently and/or inaccurately when working on all grade-level mathematical tasks.</p> <p>The student <u>struggles</u> to demonstrate content knowledge and application skills. The student <u>seldom</u> understands and uses</p> <ul style="list-style-type: none"> • equivalent representations of whole numbers • statistical measures (minimum and maximum value, range, mode, and median) • multiplication and division fact families <p>The student is <u>inaccurate</u> when</p> <ul style="list-style-type: none"> • comparing whole numbers • combining coins and bills • identifying pattern block shapes • telling time <p>The student <u>seldom uses</u> problem-solving techniques to solve</p> <ul style="list-style-type: none"> • one-step real-world addition and subtraction problems • real-world measurement problems <p>The student <u>inconsistently uses</u> representations and is <u>unable to explain</u> the reasoning process used to</p> <ul style="list-style-type: none"> • represent patterns in multiple ways • generalize a numerical pattern in words • list possible outcomes | <p>A student scoring at the approaches standard level usually performs inconsistently and/or inaccurately when working on most grade-level mathematical tasks.</p> <p>The student demonstrates <u>limited</u> content knowledge and application skills. The student <u>sometimes</u> understands and uses</p> <ul style="list-style-type: none"> • equivalent representations of whole numbers • statistical measures (minimum and maximum value, range, mode, and median) • multiplication and division fact families <p>The student is <u>rarely accurate</u> when</p> <ul style="list-style-type: none"> • comparing whole numbers • combining coins and bills • identifying pattern block shapes • telling time <p>The student <u>inconsistently uses some</u> problem-solving techniques to solve</p> <ul style="list-style-type: none"> • one-step real-world addition and subtraction problems • real-world measurement problems <p>The student <u>inconsistently uses</u> representations and <u>partially explains</u> the reasoning process used to</p> <ul style="list-style-type: none"> • represent patterns in multiple ways • generalize a numerical pattern in words • list possible outcomes | <p>A student scoring at the meets standard level usually performs consistently and accurately when working on most grade-level mathematical tasks.</p> <p>The student demonstrates <u>sufficient</u> content knowledge and application skills. The student <u>usually</u> understands and uses</p> <ul style="list-style-type: none"> • equivalent representations of whole numbers • statistical measures (minimum and maximum value, range, mode, and median) • multiplication and division fact families <p>The student is <u>usually accurate</u> when</p> <ul style="list-style-type: none"> • comparing whole numbers • combining coins and bills • identifying pattern block shapes • telling time <p>The student <u>uses some</u> problem-solving techniques to <u>accurately</u> solve</p> <ul style="list-style-type: none"> • one-step real-world addition and subtraction problems • real-world measurement problems <p>The student <u>uses</u> representations and <u>usually explains</u> the reasoning process used to</p> <ul style="list-style-type: none"> • represent patterns in multiple ways • generalize a numerical pattern in words • list possible outcomes | <p>A student scoring at the exceeds standard level usually performs consistently and accurately when working on all grade-level mathematical tasks.</p> <p>The student demonstrates <u>well-developed</u> content knowledge and application skills. The student <u>usually</u> understands and uses</p> <ul style="list-style-type: none"> • equivalent representations of whole numbers • statistical measures (minimum and maximum value, range, mode, and median) • multiplication and division fact families <p>The student is <u>accurate</u> when</p> <ul style="list-style-type: none"> • comparing whole numbers • combining coins and bills • identifying pattern block shapes • telling time <p>The student <u>usually uses multiple</u> problem-solving techniques to <u>accurately</u> solve</p> <ul style="list-style-type: none"> • one-step real-world addition and subtraction problems • real-world measurement problems <p>The student <u>uses</u> representations and <u>sufficiently explains</u> the reasoning process used to</p> <ul style="list-style-type: none"> • represent patterns in multiple ways • generalize a numerical pattern in words • list possible outcomes | <p>A student scoring at the exemplary level always performs consistently and accurately when working on all grade-level mathematical tasks.</p> <p>The student demonstrates <u>highly-developed</u> content knowledge and application skills. The student <u>consistently</u> understands and uses</p> <ul style="list-style-type: none"> • equivalent representations of whole numbers • statistical measures (minimum and maximum value, range, mode, and median) • multiplication and division fact families <p>The student is <u>highly accurate</u> when</p> <ul style="list-style-type: none"> • comparing whole numbers • combining coins and bills • identifying pattern block shapes • telling time <p>The student <u>effectively uses multiple</u> problem-solving techniques to <u>accurately</u> solve</p> <ul style="list-style-type: none"> • one-step real-world addition and subtraction problems • real-world measurement problems <p>The student <u>accurately uses</u> representations and <u>effectively explains</u> the reasoning process used to</p> <ul style="list-style-type: none"> • represent patterns in multiple ways • generalize a numerical pattern in words • list possible outcomes |

4th Grade Mathematics

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| <p>A student scoring at the academic warning level always performs inconsistently and/or inaccurately when working on all grade-level mathematical tasks.</p> <p>The student <u>struggles</u> to demonstrate content knowledge and application skills. The student <u>seldom</u> understands and uses</p> <ul style="list-style-type: none"> • place value concepts and notations • concepts of whole number properties • measurement tools <p>The student is <u>inaccurate</u> when</p> <ul style="list-style-type: none"> • solving one variable, one-step whole number equations with basic facts, money, and time • using one operation function tables • performing single transformation of two-dimensional figures • reading and plotting points in the first quadrant of a coordinate grid <p>The student <u>seldom uses</u> problem-solving techniques to solve</p> <ul style="list-style-type: none"> • one- and two-step real-world problems with addition, subtraction, and multiplication • real-world applications of the statistical measures (minimum and maximum value, range, mode, median, and mean) <p>The student <u>inconsistently uses</u> representations and is <u>unable to explain</u> the reasoning process used to</p> <ul style="list-style-type: none"> • represent relationships between mathematical operations • describe mathematical relationships with various models • identify plane figures within a composite figure • make reasonable estimations of measurements and calculations • graph data presented in a variety of formats including bar graph, pictograph, circle graph, Venn diagram, line plot | <p>A student scoring at the approaches standard level usually performs inconsistently and/or inaccurately when working on most grade-level mathematical tasks.</p> <p>The student demonstrates <u>limited</u> content knowledge and application skills. The student <u>sometimes</u> understands and uses</p> <ul style="list-style-type: none"> • place value concepts and notations • concepts of whole number properties • measurement tools <p>The student is <u>rarely accurate</u> when</p> <ul style="list-style-type: none"> • solving one variable, one-step whole number equations with basic facts, money, and time • using one operation function tables • performing single transformation of two-dimensional figures • reading and plotting points in the first quadrant of a coordinate grid <p>The student <u>inconsistently uses some</u> problem-solving techniques to solve</p> <ul style="list-style-type: none"> • one- and two-step real-world problems with addition, subtraction, and multiplication • real-world applications of the statistical measures (minimum and maximum value, range, mode, median, and mean) <p>The student <u>inconsistently uses</u> representations and <u>partially explains</u> the reasoning process used to</p> <ul style="list-style-type: none"> • represent relationships between mathematical operations • describe mathematical relationships with various models • identify plane figures within a composite figure • make reasonable estimations of measurements and calculations • graph data presented in a variety of formats including bar graph, pictograph, circle graph, Venn diagram, line plot | <p>A student scoring at the meets standard level usually performs consistently and accurately when working on most grade-level mathematical tasks.</p> <p>The student demonstrates <u>sufficient</u> content knowledge and application skills. 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The student <u>usually</u> understands and uses</p> <ul style="list-style-type: none"> • place value concepts and notations • concepts of whole number properties • measurement tools <p>The student is <u>accurate</u> when</p> <ul style="list-style-type: none"> • solving one variable, one-step whole number equations with basic facts, money, and time • using one operation function tables • performing single transformation of two-dimensional figures • reading and plotting points in the first quadrant of a coordinate grid <p>The student <u>usually uses multiple</u> problem-solving techniques to <u>accurately</u> solve</p> <ul style="list-style-type: none"> • one- and two-step real-world problems with addition, subtraction, and multiplication • real-world applications of the statistical measures (minimum and maximum value, range, mode, median, and mean) <p>The student <u>uses</u> representations and <u>sufficiently explains</u> the reasoning process used to</p> <ul style="list-style-type: none"> • represent relationships between mathematical operations • describe mathematical relationships with various models • identify plane figures within a composite figure • make reasonable estimations of measurements and calculations • graph data presented in a variety of formats including bar graph, pictograph, circle graph, Venn diagram, line plot | <p>A student scoring at the exemplary level always performs consistently and accurately when working on all grade-level mathematical tasks.</p> <p>The student demonstrates <u>highly-developed</u> content knowledge and application skills. 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5th Grade Mathematics

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| <p>A student scoring at the academic warning level always performs inconsistently and/or inaccurately when working on all grade-level mathematical tasks.</p> <p>The student <u>struggles</u> to demonstrate content knowledge and application skills. The student <u>seldom</u> understands and uses</p> <ul style="list-style-type: none"> • equivalent representations for whole numbers, fractions, and decimals • greatest common factor and least common multiple • properties of solids • statistical measures (minimum and maximum value, mean, median, mode, and range) <p>The student is <u>inaccurate</u> when</p> <ul style="list-style-type: none"> • solving one-step whole number equations • converting within the customary system • using a function table to identify, plot, and label ordered pairs <p>The student <u>seldom uses</u> problem-solving techniques to solve</p> <ul style="list-style-type: none"> • one- and two-step real-world problems with addition, subtraction, multiplication, and division • real-world applications of the properties of plane figures • real-world applications of measurement and measurement formulas <p>The student <u>inconsistently uses</u> representations and is <u>unable to explain</u> the reasoning process used to</p> <ul style="list-style-type: none"> • estimate number quantities • determine and find exact or approximate answers • represent situations with variables and symbols • interpret and use data displays for developing convincing arguments | <p>A student scoring at the approaches standard level usually performs inconsistently and/or inaccurately when working on most grade-level mathematical tasks.</p> <p>The student demonstrates <u>limited</u> content knowledge and application skills. The student <u>sometimes</u> understands and uses</p> <ul style="list-style-type: none"> • equivalent representations for whole numbers, fractions, and decimals • greatest common factor and least common multiple • properties of solids • statistical measures (minimum and maximum value, mean, median, mode, and range) <p>The student is <u>rarely accurate</u> when</p> <ul style="list-style-type: none"> • solving one-step whole number equations • converting within the customary system • using a function table to identify, plot, and label ordered pairs <p>The student <u>inconsistently uses some</u> problem-solving techniques to solve</p> <ul style="list-style-type: none"> • one- and two-step real-world problems with addition, subtraction, multiplication, and division • real-world applications of the properties of plane figures • real-world applications of measurement and measurement formulas <p>The student <u>inconsistently uses</u> representations and <u>partially explains</u> the reasoning process used to</p> <ul style="list-style-type: none"> • estimate number quantities • determine and find exact or approximate answers • represent situations with variables and symbols • interpret and use data displays for developing convincing arguments | <p>A student scoring at the meets standard level usually performs consistently and accurately when working on most grade-level mathematical tasks.</p> <p>The student demonstrates <u>sufficient</u> content knowledge and application skills. The student <u>usually</u> understands and uses</p> <ul style="list-style-type: none"> • equivalent representations for whole numbers, fractions, and decimals • greatest common factor and least common multiple • properties of solids • statistical measures (minimum and maximum value, mean, median, mode, and range) <p>The student is <u>usually accurate</u> when</p> <ul style="list-style-type: none"> • solving one-step whole number equations • converting within the customary system • using a function table to identify, plot, and label ordered pairs <p>The student <u>uses some</u> problem-solving techniques to <u>accurately</u> solve</p> <ul style="list-style-type: none"> • one- and two-step real-world problems with addition, subtraction, multiplication, and division • real-world applications of the properties of plane figures • real-world applications of measurement and measurement formulas <p>The student <u>uses</u> representations and <u>usually explains</u> the reasoning process used to</p> <ul style="list-style-type: none"> • estimate number quantities • determine and find exact or approximate answers • represent situations with variables and symbols • interpret and use data displays for developing convincing arguments | <p>A student scoring at the exceeds standard level usually performs consistently and accurately when working on all grade-level mathematical tasks.</p> <p>The student demonstrates <u>well-developed</u> content knowledge and application skills. The student <u>usually</u> understands and uses</p> <ul style="list-style-type: none"> • equivalent representations for whole numbers, fractions, and decimals • greatest common factor and least common multiple • properties of solids • statistical measures (minimum and maximum value, mean, median, mode, and range) <p>The student is <u>accurate</u> when</p> <ul style="list-style-type: none"> • solving one-step whole number equations • converting within the customary system • using a function table to identify, plot, and label ordered pairs <p>The student <u>usually uses multiple</u> problem-solving techniques to <u>accurately</u> solve</p> <ul style="list-style-type: none"> • one- and two-step real-world problems with addition, subtraction, multiplication, and division • real-world applications of the properties of plane figures • real-world applications of measurement and measurement formulas <p>The student <u>uses</u> representations and <u>sufficiently explains</u> the reasoning process used to</p> <ul style="list-style-type: none"> • estimate number quantities • determine and find exact or approximate answers • represent situations with variables and symbols • interpret and use data displays for developing convincing arguments | <p>A student scoring at the exemplary level always performs consistently and accurately when working on all grade-level mathematical tasks.</p> <p>The student demonstrates <u>highly-developed</u> content knowledge and application skills. The student <u>consistently</u> understands and uses</p> <ul style="list-style-type: none"> • equivalent representations for whole numbers, fractions, and decimals • greatest common factor and least common multiple • properties of solids • statistical measures (minimum and maximum value, mean, median, mode, and range) <p>The student is <u>highly accurate</u> when</p> <ul style="list-style-type: none"> • solving one-step whole number equations • converting within the customary system • using a function table to identify, plot, and label ordered pairs <p>The student <u>effectively uses multiple</u> problem-solving techniques to <u>accurately</u> solve</p> <ul style="list-style-type: none"> • one- and two-step real-world problems with addition, subtraction, multiplication, and division • real-world applications of the properties of plane figures • real-world applications of measurement and measurement formulas <p>The student <u>accurately uses</u> representations and <u>effectively explains</u> the reasoning process used to</p> <ul style="list-style-type: none"> • estimate number quantities • determine and find exact or approximate answers • represent situations with variables and symbols • interpret and use data displays for developing convincing arguments |

6th Grade Mathematics

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| <p>A student scoring at the academic warning level always performs inconsistently and/or inaccurately when working on all grade-level mathematical tasks.</p> <p>The student struggles to demonstrate content knowledge and application skills. The student seldom understands and uses</p> <ul style="list-style-type: none"> relationships between percents, decimals, and fractions basic operations of whole numbers and decimals and addition, subtraction, and multiplication of fractions probability of simple events <p>The student is inaccurate when</p> <ul style="list-style-type: none"> comparing integers, fractions, and decimals classifying angles and triangles converting within the metric system performing transformations of two-dimensional figures reading and plotting points in the coordinate plane <p>The student seldom uses problem-solving techniques to solve</p> <ul style="list-style-type: none"> one-and two-step real world problems with rational numbers real-world problems for perimeter of polygons and area of squares, rectangles, and triangles <p>The student inconsistently uses representations and is unable to explain the reasoning process used to</p> <ul style="list-style-type: none"> check reasonableness of estimates and make predictions continue patterns and generalize the rule for the next number represent real-world situations by writing and/or solving one-step equations with positive rational numbers list all possible outcomes | <p>A student scoring at the approaches standard level usually performs inconsistently and/or inaccurately when working on most grade-level mathematical tasks.</p> <p>The student demonstrates limited content knowledge and application skills. The student sometimes understands and uses</p> <ul style="list-style-type: none"> relationships between percents, decimals, and fractions basic operations of whole numbers and decimals and addition, subtraction, and multiplication of fractions probability of simple events <p>The student is rarely accurate when</p> <ul style="list-style-type: none"> comparing integers, fractions, and decimals classifying angles and triangles converting within the metric system performing transformations of two-dimensional figures reading and plotting points in the coordinate plane <p>The student inconsistently uses some problem-solving techniques to solve</p> <ul style="list-style-type: none"> one-and two-step real world problems with rational numbers real-world problems for perimeter of polygons and area of squares, rectangles, and triangles <p>The student inconsistently uses representations and partially explains the reasoning process used to</p> <ul style="list-style-type: none"> check reasonableness of estimates and make predictions continue patterns and generalize the rule for the next number represent real-world situations by writing and/or solving one-step equations with positive rational numbers list all possible outcomes | <p>A student scoring at the meets standard level usually performs consistently and accurately when working on most grade-level mathematical tasks.</p> <p>The student demonstrates sufficient content knowledge and application skills. The student usually understands and uses</p> <ul style="list-style-type: none"> relationships between percents, decimals, and fractions basic operations of whole numbers and decimals and addition, subtraction, and multiplication of fractions probability of simple events <p>The student is usually accurate when</p> <ul style="list-style-type: none"> comparing integers, fractions, and decimals classifying angles and triangles converting within the metric system performing transformations of two-dimensional figures reading and plotting points in the coordinate plane <p>The student uses some problem-solving techniques to accurately solve</p> <ul style="list-style-type: none"> one-and two-step real world problems with rational numbers real-world problems for perimeter of polygons and area of squares, rectangles, and triangles <p>The student uses representations and usually explains the reasoning process used to</p> <ul style="list-style-type: none"> check reasonableness of estimates and make predictions continue patterns and generalize the rule for the next number represent real-world situations by writing and/or solving one-step equations with positive rational numbers list all possible outcomes | <p>A student scoring at the exceeds standard level usually performs consistently and accurately when working on all grade-level mathematical tasks.</p> <p>The student demonstrates well-developed content knowledge and application skills. The student usually understands and uses</p> <ul style="list-style-type: none"> relationships between percents, decimals, and fractions basic operations of whole numbers and decimals and addition, subtraction, and multiplication of fractions probability of simple events <p>The student is accurate when</p> <ul style="list-style-type: none"> comparing integers, fractions, and decimals classifying angles and triangles converting within the metric system performing transformations of two-dimensional figures reading and plotting points in the coordinate plane <p>The student usually uses multiple problem-solving techniques to accurately solve</p> <ul style="list-style-type: none"> one-and two-step real world problems with rational numbers real-world problems for perimeter of polygons and area of squares, rectangles, and triangles <p>The student uses representations and sufficiently explains the reasoning process used to</p> <ul style="list-style-type: none"> check reasonableness of estimates and make predictions continue patterns and generalize the rule for the next number represent real-world situations by writing and/or solving one-step equations with positive rational numbers list all possible outcomes | <p>A student scoring at the exemplary level always performs consistently and accurately when working on all grade-level mathematical tasks.</p> <p>The student demonstrates highly-developed content knowledge and application skills. The student consistently understands and uses</p> <ul style="list-style-type: none"> relationships between percents, decimals, and fractions basic operations of whole numbers and decimals and addition, subtraction, and multiplication of fractions probability of simple events <p>The student is highly accurate when</p> <ul style="list-style-type: none"> comparing integers, fractions, and decimals classifying angles and triangles converting within the metric system performing transformations of two-dimensional figures reading and plotting points in the coordinate plane <p>The student effectively uses multiple problem-solving techniques to accurately solve</p> <ul style="list-style-type: none"> one and two-step real world problems with rational numbers real-world problems for perimeter of polygons and area of squares, rectangles, and triangles <p>The student accurately uses representations and effectively explains the reasoning process used to</p> <ul style="list-style-type: none"> check reasonableness of estimates and make predictions continue patterns and generalize the rule for the next number represent real-world situations by writing and/or solving one-step equations with positive rational numbers list all possible outcomes |

7th Grade Mathematics

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| <p>A student scoring at the academic warning level always performs inconsistently and/or inaccurately when working on all grade-level mathematical tasks.</p> <p>The student struggles to demonstrate content knowledge and application skills. The student seldom understands and uses</p> <ul style="list-style-type: none"> • percentages of rational numbers • mathematical relationship between ratios, proportions, and percents • measurement formulas for perimeter, area, surface area, and volume • scale drawings • properties of triangles and quadrilaterals <p>The student is inaccurate when</p> <ul style="list-style-type: none"> • adding, subtracting, multiplying, and dividing whole numbers, fractions, and decimals • stating the rule for the nth term of a pattern • evaluating simple algebraic expressions <p>The student seldom uses problem-solving techniques to solve</p> <ul style="list-style-type: none"> • real-world problems for perimeter and area <p>The student inconsistently uses representations and is unable to explain the reasoning process used to</p> <ul style="list-style-type: none"> • generate equivalent representations of rational numbers and simple algebraic expressions • continue and generalize patterns including perfect squares, cubes, factors, multiples, and arithmetic and geometric sequences • represent real-world problems using variables and symbols • read graphs presented in a variety of formats including circle graphs, stem-and-leaf graphs, and box-and-whiskers plots • recognize misleading data representations and effects of scale changes | <p>A student scoring at the approaches standard level usually performs inconsistently and/or inaccurately when working on most grade-level mathematical tasks.</p> <p>The student demonstrates limited content knowledge and application skills. The student sometimes understands and uses</p> <ul style="list-style-type: none"> • percentages of rational numbers • mathematical relationship between ratios, proportions, and percents • measurement formulas for area, perimeter, surface area, and volume • scale drawings • properties of triangles and quadrilaterals <p>The student is rarely accurate when</p> <ul style="list-style-type: none"> • adding, subtracting, multiplying, and dividing whole numbers, fractions, and decimals • stating the rule for the nth term of a pattern • evaluating simple algebraic expressions <p>The student inconsistently uses some problem-solving techniques to solve</p> <ul style="list-style-type: none"> • real-world problems for perimeter and area <p>The student inconsistently uses representations and partially explains the reasoning process used to</p> <ul style="list-style-type: none"> • generate equivalent representations of rational numbers and simple algebraic expressions • continue and generalize patterns including perfect squares, cubes, factors, multiples, and arithmetic and geometric sequences • represent real-world problems using variables and symbols • read graphs presented in a variety of formats including circle graphs, stem-and-leaf graphs, and box-and-whiskers plots • recognize misleading data representations and effects of scale changes | <p>A student scoring at the meets standard level usually performs consistently and accurately when working on most grade-level mathematical tasks.</p> <p>The student demonstrates sufficient content knowledge and application skills. 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8th Grade Mathematics

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| <p>A student scoring at the academic warning level <u>always performs inconsistently and/or inaccurately</u> when working on <u>all</u> grade-level mathematical tasks.</p> <p>The student <u>struggles</u> to demonstrate content knowledge and application skills. The student <u>seldom</u> understands and uses</p> <ul style="list-style-type: none"> • subsets of real numbers • the Pythagorean Theorem • corresponding parts of congruent and similar figures • measures of central tendency with rational numbers • ordered pairs, slope, and vertical/horizontal distance <p>The student is <u>inaccurate</u> when</p> <ul style="list-style-type: none"> • computing with integers and order of operations with rational numbers • applying real number properties • solving one- and two-step linear equations • multiplying and dividing numbers between 0 and 1, numbers larger than one, and multiplying by zero • finding the probability of compound and independent events <p>The student <u>seldom uses</u> problem-solving techniques to solve</p> <ul style="list-style-type: none"> • real-world problems with rational numbers, pi, and percents <p>The student <u>inconsistently uses</u> representations and is <u>unable to explain</u> the reasoning process used to</p> <ul style="list-style-type: none"> • represent real-world problems • translate between numerical, graphical, tabular, and symbolic representations of linear relationships • model situations graphically, algebraically and geometrically • predict simple events | <p>A student scoring at the approaches standard level <u>usually performs inconsistently and/or inaccurately</u> when working on <u>most</u> grade-level mathematical tasks.</p> <p>The student demonstrates <u>limited</u> content knowledge and application skills. The student <u>sometimes</u> understands and uses</p> <ul style="list-style-type: none"> • subsets of real numbers • the Pythagorean Theorem • corresponding parts of congruent and similar figures • measures of central tendency with rational numbers • ordered pairs, slope, and vertical/horizontal distance <p>The student is <u>rarely accurate</u> when</p> <ul style="list-style-type: none"> • computing with integers and order of operations with rational numbers • applying real number properties • solving one- and two-step linear equations • multiplying and dividing numbers between 0 and 1, numbers larger than one, and multiplying by zero • finding the probability of compound and independent events <p>The student <u>inconsistently uses some</u> problem-solving techniques to solve</p> <ul style="list-style-type: none"> • real-world problems with rational numbers, pi, and percents <p>The student <u>inconsistently uses</u> representations and <u>partially explains</u> the reasoning process used to</p> <ul style="list-style-type: none"> • represent real-world problems • translate between numerical, graphical, tabular, and symbolic representations of linear relationships • model situations graphically, algebraically and geometrically • predict simple events | <p>A student scoring at the meets standard level <u>usually performs consistently and accurately</u> when working on <u>most</u> grade-level mathematical tasks.</p> <p>The student demonstrates <u>sufficient</u> content knowledge and application skills. 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The student <u>usually</u> understands and uses</p> <ul style="list-style-type: none"> • subsets of real numbers • the Pythagorean Theorem • corresponding parts of congruent and similar figures • measures of central tendency with rational numbers • ordered pairs, slope, and vertical/horizontal distance <p>The student is <u>accurate</u> when</p> <ul style="list-style-type: none"> • computing with integers and order of operations with rational numbers • applying real number properties • solving one- and two-step linear equations • multiplying and dividing numbers between 0 and 1, numbers larger than one, and multiplying by zero • finding the probability of compound and independent events <p>The student <u>usually uses multiple</u> problem-solving techniques to <u>accurately</u> solve</p> <ul style="list-style-type: none"> • real-world problems with rational numbers, pi, and percents <p>The student <u>uses</u> representations and <u>sufficiently explains</u> the reasoning process used to</p> <ul style="list-style-type: none"> • represent real-world problems • translate between numerical, graphical, tabular, and symbolic representations of linear relationships • model situations graphically, algebraically and geometrically • predict simple events | <p>A student scoring at the exemplary level <u>always performs consistently and accurately</u> when working on <u>all</u> grade-level mathematical tasks.</p> <p>The student demonstrates <u>highly-developed</u> content knowledge and application skills. The student <u>consistently</u> understands and uses</p> <ul style="list-style-type: none"> • subsets of real numbers • the Pythagorean Theorem • corresponding parts of congruent and similar figures • measures of central tendency with rational numbers • ordered pairs, slope, and vertical/horizontal distance <p>The student is <u>highly accurate</u> when</p> <ul style="list-style-type: none"> • computing with integers and order of operations with rational numbers • applying real number properties • solving one- and two-step linear equations • multiplying and dividing numbers between 0 and 1, numbers larger than one, and multiplying by zero • finding the probability of compound and independent events <p>The student <u>effectively uses multiple</u> problem-solving techniques to <u>accurately</u> solve</p> <ul style="list-style-type: none"> • real-world problems with rational numbers, pi, and percents <p>The student <u>accurately uses</u> representations and <u>effectively explains</u> the reasoning process used to</p> <ul style="list-style-type: none"> • represent real-world problems • translate between numerical, graphical, tabular, and symbolic representations of linear relationships • model situations graphically, algebraically, and geometrically • predict simple events |

High School Mathematics

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The student <u>seldom</u> understands and uses</p> <ul style="list-style-type: none"> • properties of real numbers • slopes of parallel and perpendicular lines • slope/y-intercept forms of a line <p>The student is <u>inaccurate</u> when</p> <ul style="list-style-type: none"> • solving systems of equations • computing probability and odds • analyzing the effects of transformations on perimeter, area, and volume • analyzing the effect of changes in the slope and constant of linear equations <p>The student <u>seldom uses</u> problem-solving techniques to solve</p> <ul style="list-style-type: none"> • real-world problems involving volume and surface area of rectangular solids and cylinder, and application of percents • real-world applications of linear equations and inequalities • real-world applications of the Pythagorean Theorem • real-world problems using data analysis from a data display <p>The student <u>inconsistently uses</u> representations and is <u>unable to explain</u> the reasoning process used to</p> <ul style="list-style-type: none"> • adjust estimates • represent real-world problems with linear equations and inequalities • interpret the real-world meaning of slope, intercepts, and points on/off a line • interpret the effect of outliers • approximate the line of best fit • analyze data from a data display | <p>A student scoring at the approaches standard level <u>usually</u> performs inconsistently and/or inaccurately when working on <u>most</u> grade-level mathematical tasks.</p> <p>The student demonstrates <u>limited</u> content knowledge and application skills. 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