

Grade 6 Common Core Mathematics

Student “I CAN” Statements Based on Critical Focus Areas

Critical Area of Focus 1

Connect ratio and rate to whole number multiplication and division and use concepts of ratio and rate to solve problems

I can...

- use ratio language to describe the ratio relationship between two quantities
- develop tables of unit ratios and equivalent ratios and use them to solve problems
- represent ratios using tape diagrams, double number line diagrams, and within written equations
- solve problems involving unit pricing and unit rates of speed.
- solve percent problems as part-to-whole relationships in which 100 is used as a denominator in one ratio
- use ratio reasoning to convert measurements within the U.S. customary measurement system
- ratio reasoning to convert measurements within the metric measurement system

Critical Area of Focus 2

Arithmetic and understanding of fractions, negative numbers, and decimal numbers

I can...

- compute fluently with multi-digit numbers, using information about common factors and multiples.
- apply the distributive property and an understanding of place value to compute using multiplication
- apply what I know about the base 10 number system to add, subtract, multiply, and divide fractions
- apply what I know about the base 10 number system to add, subtract, multiply, and divide decimal fractions
- compute fluently with negative integers and negative fraction or decimal numbers

Critical Area of Focus 3

Writing, interpreting and using expressions and equations

I can...

- write and evaluate numerical expressions using whole number exponents
- use mathematical vocabulary to discuss parts of an expression (base, exponent, term, product, quotient, factor, etc.)

Created for Greater Cleveland Council of Teachers of Mathematics

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Adapted from 2010 Common Core State Standards for Mathematics

- evaluate expressions given specific values for variables, using order of operations to clarify and simplify calculations
- apply the properties of arithmetic and algebraic language to write equivalent expressions
- identify when two expressions are equivalent and explain why they are equivalent
- use variables to represent numbers and write expressions
- set up and solve an equation or inequality in one variable as part of a process to answer real world questions
- write, analyze, and explain the relationship between dependent and independent variables using graphs and tables, and relate these to equations for lines

Critical Area of Focus 4

Develop statistical thinking

I can...

- represent a set of data collected to answer a statistical question by describing the distribution of its center, spread, and overall shape
- display and describe numerical data using plots on a number line, including dot plots, histograms, and box plots.
- determine quantitative measures of center (median and/or mean) and variability (interquartile range and/or mean absolute deviation), and describe any patterns or striking deviations from the overall pattern with regard to the context in which the data were gathered.

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