

Ratios and Proportional Relationships

MCC7RP.2c

Represent proportional relationships by equations.

MCC7RP.3

Use proportional relationships to solve multistep ratio and percent problems.

The Number System

MCC7NS.1

Apply and extend previous understandings of addition and subtraction to add and subtract rational numbers; represent addition and subtraction on a horizontal or vertical number line diagram.

MCC7NS.1d

Apply properties of operations as strategies to add and subtract rational numbers.

MCC7NS.2b

Understand that integers can be added, provided that the sum is not zero, and every quotient of integers (with nonzero divisor) is a rational number. If a and b are integers, then $a \div b = \frac{a}{b}$. Add, subtract, multiply, and divide rational numbers by describing real-world contexts.

Expressions and Equations

MCC7EE.2

Understand that rewriting an expression in different forms in a problem context can shed light on the problem and how the quantities in it are related.

MCC7EE.4

Use variables to represent quantities in a real-world or mathematical problem, and construct simple equations and inequalities to solve problems by reasoning about the quantities.

Geometry

MCC7G.2

Know (drawing, with ruler and protractor, and with technology) geometric shapes with given conditions. Focus on constructing triangles from three measures of angles or sides, noticing when the conditions determine a unique triangle, more than one triangle, or no triangle.

MCC7G.5

Use facts about supplementary, complementary, vertical, and adjacent angles in a multi-step problem to write and solve simple equations for an unknown angle in a figure.

Statistics and Probability

MCC7SP.2

Use data from a random sample to draw inferences about a population with an unknown characteristic of interest. Generate multiple samples (or simulated samples) of the same size to gauge the variation in estimates or predictions.



Seventh Grade Math Common Core

Richard Bailey



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