Georgia Mathematics

Grade 7 - Learning Progressions

Adopted 2021

5-12 Learning Progressions

Numerical Reasoning

Numbers (rational numbers and irrational numbers)

1. All rational numbers 7.LP5.1.1
2. Simple probability 7.LP5.1.2

Computational Fluency

1. Operations with rational numbers 7.LP5.2.1
2. Rational numbers 7.LP5.2.2
3. Convert fractions with all denominators to decimal numbers 7.LP5.2.3

Comparisons

1. Rational numbers 7.LP5.3.1
2. Probabilities 7.LP5.3.2
3. Random sampling 7.LP5.3.3

Patterning & Algebraic Reasoning

Patterns

1. Constant of proportionality 7.LP6.1.1

Expressions

1. Add, subtract, factor & expand linear expressions 7.LP6.2.1
2. Rewrite expressions 7.LP6.2.2
3. Fluency with combining like terms in an algebraic expression 7.LP6.2.3
4. Linear expressions with rational coefficients 7.LP6.2.4

Variable Equations & Inequalities

1. Construct & solve multi-step algebraic equations and inequalities 7.LP6.3.1

Ratios & Rates

1. Compute unit rates associated with ratios of fractions 7.LP6.4.1
2. Determine unit rates 7.LP6.4.2

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Proportional Relationships

1. Use proportional relationships 7.LP6.5.1
2. Solve multi-step ratio and percent problems 7.LP6.5.2
3. Scale drawings of geometric figures 7.LP6.5.3
4. Use similar triangles to explain slope 7.LP6.5.4

Graphing

1. Proportional relationships 7.LP6.6.1

Geometric & Spatial Reasoning

Shapes & Properties

1. Measure angles using non-standard and standard tools 7.LP8.1.1
2. Write & solve equations using supplementary, complementary, vertical, and adjacent angles 7.LP8.1.2

Geometric Measurement

1. Relationship between parts of a circle 7.LP8.2.1
2. Area & circumference of a circle 7.LP8.2.2
3. Area and surface area of figures decomposed into triangles, quadrilaterals & circles 7.LP8.2.3
4. Volume of cubes, right prisms & cylinders 7.LP8.2.4

Probability Reasoning

Probability

1. Represent probability 7.LP9.1.1
2. Approximate probability 7.LP9.1.2
3. Develop probability models (uniform & not uniform) 7.LP9.1.3
4. Find probabilities of simple events 7.LP9.1.4