

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

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