**Numbers and Operations**

M07.A-N.1.1.2

Represent addition and subtraction on a horizontal or vertical number line.

**Numbers and Operations**

M07.A-R.1.1.2

Determine whether two quantities are proportionally related (e.g., by testing for equivalent ratios in a table, graphing on a coordinate plane and observing whether the graph is a straight line through the origin).

**Numbers and Operations**

M07.A-R.1.1.3

Identify the constant of proportionality (unit rate) in tables, graphs, equations, diagrams, and verbal descriptions of proportional relationships.

**Numbers and Operations**

M07.A-R.1.1.4

Represent proportional relationships by equations.

**Numbers and Operations**

M07.A-R.1.1.5

Explain what a point (x, y) on the graph of a proportional relationship means in terms of the situation, with special attention to the points (0, 0) and (1, r), where r is the unit rate.

**Numbers and Operations**

M07.A-N.1.1.1

Apply properties of operations to add and subtract rational numbers, including real-world contexts.

**Numbers and Operations**

M07.A-N.1.1.3

Apply properties of operations to multiply and divide rational numbers, including real-world contexts; demonstrate that the decimal form of a rational number terminates or eventually repeats.

**Numbers and Operations**

M07.A-R.1.1.1

Compute unit rates associated with ratios of fractions, including ratios of lengths, areas, and other quantities measured in like or different units.

**Numbers and Operations**

M07.A-R.1.1.6

Use proportional relationships to solve multi-step ratio and percent problems.

**Algebraic Concepts**

M07.B-E.1.1.1

Apply properties of operations to add, subtract, factor, and expand linear expressions with rational coefficients.

**Algebraic Concepts**

M07.B-E.2.1.1

Apply properties of operations to calculate with numbers in any form; convert between forms as appropriate.

**Algebraic Concepts**

M07.B-E.2.2.1

Solve word problems leading to equations of the form px + q = r and p(x + q) = r, where p, q, and r are specific rational numbers.

**Algebraic Concepts**

M07.B-E.2.2.2

Solve word problems leading to inequalities of the form px + q > r or px + q < r, where p, q, and r are specific rational numbers, and graph the solution set of the inequality.

**Algebraic Concepts**

M07.B-E.2.3.1

Determine the reasonableness of answer(s) or interpret the solution(s) in the context of the problem.

**Geometry**

M07.C-G.1.1.2

Identify or describe the properties of all types of triangles based on angle and side measures.

**Geometry**

M07.C-G.1.1.3

Use and apply the triangle inequality theorem.

**Geometry**

M07.C-G.1.1.4

Describe the two-dimensional figures that result from slicing three-dimensional figures.

**Geometry**

M07.C-G.2.1.1

Identify and use properties of supplementary, complementary and adjacent angles in a multi-step problem to write and solve simple equations for an unknown angle in a figure.

**Geometry**

M07.C-G.2.1.2

Identify and use properties of angles formed when two parallel lines are cut by a transversal (e.g., angles may include alternate interior, alternate exterior, vertical, corresponding).

**Geometry**

M07.C-G.1.1.1

Solve problems involving scale drawings of geometric figures, including finding length and area.

**Geometry**

M07.C-G.2.2.1

Find the area and circumference of a circle. Solve problems involving area and circumference of a circle(s). Formulas will be provided.

**Geometry**

M07.C-G.2.2.2

Solve real-world and mathematical problems involving area, volume, and surface area of two- and three-dimensional objects composed of triangles, quadrilaterals, polygons, cubes, and right prisms. Formulas will be provided.

**Measurement, Data, Probability**

M07.D-S.2.1.1

Compare two numerical data distributions using measures of center and variability.

**Measurement, Data, Probability**

M07.D-S.1.1.1

Determine whether a sample is a random sample given a real-world situation.

**Measurement, Data, Probability**

M07.D-S.1.1.2

Use data from a random sample to draw inferences about a population with an unknown characteristic of interest.

**Measurement, Data, Probability**

M07.D-S.3.1.1

Predict or determine whether some outcomes are certain, more likely, less likely, equally likely, or impossible (i.e., a probability near 0 indicates an unlikely event, a probability around 1/2 indicates an event that is neither unlikely nor likely, and a probability near 1 indicates a likely event).

**Measurement, Data, Probability**

M07.D-S.3.2.1

Determine the probability of a chance event given relative frequency. Predict the approximate relative frequency given the probability.

**Measurement, Data, Probability**

M07.D-S.3.2.2

Find the probability of a simple event, including the probability of a simple event not occurring.

**Measurement, Data, Probability**

M07.D-S.3.2.3

Find probabilities of independent compound events using organized lists, tables, tree diagrams, and simulation.