

Quarter 1

**The Number System &
Ratios and Proportional
Relationships**

CC.2.1.7. D.1: Analyze proportional relationships and use them to model and solve real-world and mathematical problems.

- **Unit rates and prices**
- **Equivalent ratios**
- **Proportions**
- **Rate of change**
- **Proportional relationships**
- **Constant of proportionality**
- **Write equations for proportional relationships**
- **Percent problems**
- **Percent of change**
- **Consumer math**

CC.2.1.7. E.1: Apply and extend previous understandings of operations with fractions to operations with rational numbers.

- **Integer addition and subtraction**
- **Integer multiplication and division**
- **Decimal addition and subtraction**
- **Decimal multiplication and division**
- **Fraction addition and subtraction**
- **Fraction multiplication and division**
- **Rational number addition and subtraction**
- **Rational number multiplication and division**
- **Decimal form of rational numbers**
- **Mixed operations**

Quarter 2

Expressions and Equations

CC.2.2.7. B.1: Apply properties of operations to generate equivalent expressions.

- **Linear expressions**
- **Properties of operations**

CC.2.2.7. B.3: Model and solve real-world and mathematical problems by using and connecting numerical, algebraic, and/or graphical representations.

- **Estimation**
- **Order of Operations**
- **Write variable expressions**
- **Evaluate variable expressions**
- **Multi-step real world problems**
- **Equations**
- **Inequalities**

Grade 7

Quarter 3

Geometry

CC.2.3.7.A.1: Solve real-world and mathematical problems involving angle measure, area, surface area, circumference, and volume.

- **Angles**
- **Transversals of parallel lines**
- **Perimeter and area**
- **Circles**
- **Compound figures**
- **Surface area and volume**

CC.2.3.7.A.2: Visualize and represent geometric figures and describe the relationships between them.

- **Triangles**
- **Scale drawings**
- **Three-dimensional figures**

Quarter 4

Statistics and Probability

CC.2.4.7.B.1: Draw inferences about populations based on random sampling concepts.

CC.2.4.7.B.2: Draw informal comparative inferences about two populations.

CC.2.4.7.B.3: Investigate chance processes and develop, use, and evaluate probability models.

- **Theoretical and experimental probability**
- **Compound events**
- **Sample spaces**