

# Seventh Grade

## Ratios and Proportional Relationships 7.RP

### A. Major Cluster: Analyze proportional relationships and use them to solve real-world and mathematical problems. 7.RP.A

- 1 Use a ratio to model or describe a relationship. EE.7.RP.1-3
  - 2 Use a ratio to model or describe a relationship. EE.7.RP.1-3
  - 3 Use a ratio to model or describe a relationship. EE.7.RP.1-3
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## The Number System 7.NS

### A. Major Cluster: Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational numbers. 7.NS.A

- 1 Add fractions with like denominators (halves, thirds, fourths, and tenths) with sums less than or equal to one. EE.7.NS.1
  - 2.a Solve multiplication problems with products to 100. EE.7.NS.2.A
  - 2.b Solve division problems with divisors up to five and also with a divisor of 10 without remainders. EE.7.NS.2.B
  - 2.c Express a fraction with a denominator of 10 as a decimal. EE.7.NS.2.C-D
  - 2.d Express a fraction with a denominator of 10 as a decimal. EE.7.NS.2.C-D
  - 3 Compare quantities represented as decimals in real-world examples to tenths. EE.7.NS.3
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## Expressions and Equations 7.EE

### A. Major Cluster: Use properties of operations to generate equivalent expressions. 7.EE.A

- 1 Use the properties of operations as strategies to demonstrate that expressions are equivalent. EE.7.EE.1
  - 2 Identify an arithmetic sequence of whole numbers with a whole number common difference. EE.7.EE.2
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### B. Major Cluster: Solve real-life and mathematical problems using numerical and algebraic expressions and equations. 7.EE.B

- 4 Use the concept of equality with models to solve one-step addition and subtraction equations. EE.7.EE.4
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## Geometry 7.G

### A. Additional Cluster: Draw, construct, and describe geometrical figures and describe the relationships between them. 7.G.A

- 1 Match two similar geometric shapes that are proportional in size and in the same orientation. EE.7.G.1
- 2 Recognize geometric shapes with given conditions. EE.7.G.2
- 3 Match a two-dimensional shape with a three-dimensional shape that shares an attribute. EE.7.G.3

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### B. Additional Cluster: Solve real-life and mathematical problems involving angle measure, area, surface area, and volume. 7.G.B

- 4 Determine the perimeter of a rectangle by adding the measures of the sides. EE.7.G.4
- 5 Recognize angles that are acute, obtuse, and right. EE.7.G.5
- 6 Determine the area of a rectangle using the formula for length  $\times$  width, and confirm the result using tiling or partitioning into unit squares. EE.7.G.6

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## Statistics and Probability 7.SP

### A. Supporting Cluster: Use random sampling to draw inferences about a population. 7.SP.A

- 1 Answer a question related to the collected data from an experiment, given a model of data, or from data collected by the student. EE.7.SP.1-2
- 2 Answer a question related to the collected data from an experiment, given a model of data, or from data collected by the student. EE.7.SP.1-2

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### B. Additional Cluster: Draw informal comparative inferences about two populations. 7.SP.B

- 3 Compare two sets of data within a single data display such as a picture graph, line plot, or bar graph. EE.7.SP.3

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### C. Supporting Cluster: Investigate and model chance processes. 7.SP.C

- 5 Describe the probability of events occurring as possible or impossible. EE.7.SP.5-7
- 6 Describe the probability of events occurring as possible or impossible. EE.7.SP.5-7
- 7 Describe the probability of events occurring as possible or impossible. EE.7.SP.5-7