

# Essential Elements: Grade 6

## Ratios and Proportional Relationships 6.RP

### A Understand ratio concepts and use ratio reasoning to solve problems. (M) M.6.RP.A

- 1 Demonstrate a simple ratio relationship. M.EE.6.RP.1
  - 2 Not applicable. See M.EE.7.RP.1.
  - 3 Not applicable. See M.EE.8.F.1.
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## The Number System 6.NS

### A Apply and extend previous understandings of multiplication and division to divide fractions by fractions. M.6.NS.A

- 1 Compare the relationships between two-unit fractions. M.EE.6.NS.1
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### B Flexibly and efficiently compute with multidigit numbers and find common factors and multiples. M.6.NS.B

- 2 Apply the concept of fair share and equal shares to divide. M.EE.6.NS.2
  - 3 Use the meaning of multiplication and the properties of operations (e.g., the distributive property) to develop and understand strategies to find products with multiples of 3, 4, and 9 within 100. M.EE.6.NS.3
  - 4 Not applicable.
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### C Apply and extend previous understandings of numbers to the system of rational numbers. (M) M.6.NS.C

- 5 Describe quantities having opposite directions or values as positive and negative numbers (e.g., temperature above/below zero). M.EE.6.NS.5
  - 6 Describe quantities having opposite directions or values as positive and negative numbers (e.g., temperature above/below zero). M.EE.6.NS.6
  - 7 Describe quantities having opposite directions or values as positive and negative numbers (e.g., temperature above/below zero). M.EE.6.NS.7
  - 8 Describe quantities having opposite directions or values as positive and negative numbers (e.g., temperature above/below zero). M.EE.6.NS.8
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## The Expressions and Equations 6.EE

### A Apply and extend previous understandings of arithmetic to algebraic expressions. M.6.EE.A

- 1 Evaluate if an equation is true. M.EE.6.EE.1
- 2 Evaluate if an equation is true. M.EE.6.EE.2
- 3 Apply the properties of addition to identify equivalent numerical expressions. M.EE.6.EE.3
- 4 Not applicable.

### B Reason about and solve one variable equations and inequalities. M.6.EE.B

- 5 Match an equation to a real world problem in which variables are used to represent numbers. M.EE.6.EE.5
- 6 Match an equation to a real world problem in which variables are used to represent numbers. M.EE.6.EE.6
- 7 Match an equation to a real world problem in which variables are used to represent numbers. M.EE.6.EE.7
- 8 Not applicable.

### C Represent and analyze quantitative relationships between dependent and independent variables. (M) M.6.EE.C

- 9 Not applicable.

## Geometry 6.G

### A Solve real-world and mathematical problems involving area, surface area, and volume. (M) M.6.G.A

- 1 Solve real-world and mathematical problems about area using unit squares. M.EE.6.G.1
- 2 Solve real-world and mathematical problems about volume using unit cubes. M.EE.6.G.2
- 3 Not applicable.
- 4 Not applicable.

## Statistics and Probability 6.SP

### A Develop understanding of statistical variability. (M) M.6.SP.A

- 2 Display data on a graph or table that shows variability in the data. M.EE.6.SP.2
- 1 Display data on a graph or table that shows variability in the data. M.EE.6.SP.1
- 3 Not applicable.

### B Summarize and describe distributions. (M) M.6.SP.B

- 4 Display data on a graph or table that shows variability in the data. M.EE.6.SP.4
- 5 Summarize data distributions shown in graphs or tables. M.EE.6.SP.5