Integers and Rational Numbers

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Equations

In this chapter, you will apply properties of operations as strategies to add, subtract, factor, and expand linear expressions with rational coefficients. You will also use variables to represent quantities and construct simple equations to solve problems.

Expressions & Equations
7.EE.1
7.EE.3
7.EE.4
7.EE.4.a

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In this chapter, you will extend your understanding of the inverse relationship of operations to solve inequalities. You will use variables to write expressions and solve real-world and mathematical problems by graphing, writing, and solving inequalities. You will also develop a more complete understanding of variables and expressions as you begin to see patterns in the structure of inequalities.

**Expressions & Equations**

7.EE.4.b

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• Test Prep: Cumulative Review, 125
In this chapter, you will compute unit rates associated with ratios of fractions. You will also recognize and represent proportional relationships between quantities and solve problems involving scale drawings of geometric figures.

Ratios & Proportional Relationships
- 7.RP.1
- 7.RP.2
- 7.RP.2.a
- 7.RP.2.b
- 7.RP.2.c
- 7.RP.2.d

Geometry
- 7.G.1

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Percents

**COMMON CORE STATE STANDARDS**

In this chapter, you will convert between forms of rational numbers and use proportional relationships to solve multistep ratio and percent problems (e.g., simple interest, tax, markups and markdowns, gratuities and commissions, fees, percent increase and decrease, percent error).

- **Ratios & Proportional Relationships**
  - 7.RP.3
- **Expressions & Equations**
  - 7.EE.2
  - 7.EE.3

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- **Test Prep:** Cumulative Review, 211
In this chapter, you will draw, construct, and describe geometrical figures and describe the relationships between them. You will also solve real-life and mathematical problems involving angle measure and area.

Geometry
7.G.2
7.G.4
7.G.5
7.G.6

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• Test Prep: Cumulative Review, 249
In this chapter, you will solve real-world and mathematical problems involving volume and surface area of three-dimensional objects. You will also describe the two-dimensional figures that result from slicing three-dimensional figures.

**Geometry**
- 7.G.3
- 7.G.6

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**Surface Area and Volume**

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In this chapter, you will use random sampling to draw inferences about a population. You will also draw informal comparative inferences about two populations and understand the effect sampling has on data collection.

Statistics & Probability

7.SP.1
7.SP.2
7.SP.3
7.SP.4
In this chapter, you will investigate chance processes and develop, use, and evaluate probability models. You will also compare theoretical probabilities of simple and compound events to observed frequencies.

Statistics & Probability
7.SP.5
7.SP.6
7.SP.7
7.SP.7.a
7.SP.7.b
7.SP.8
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