

# Unit 5: Proportional Relationships

Content Area:	<b>Math</b>
Course(s):	<b>Math</b>
Time Period:	<b>September</b>
Length:	<b>3-4 weeks</b>
Status:	<b>Published</b>

## Enduring Understandings

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SWBAT:

- Write and interpret ratios.
- Describe ratio relationships and proportional relationships.
- Represent equivalent ratios.
- Model ratio relationships and proportional relationships to solve real-life problems

## Essential Questions

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How can we:

- Understand ratios of rational numbers and use ratio tables to represent equivalent ratios
  - Write and interpret ratios involving rational numbers.
  - Use various operations to create tables of equivalent ratios.
  - Use ratio tables to solve ratio problems.
- Understand rates involving fractions and use unit rates to solve problems
  - Find unit rates for rates involving fractions.
  - Use unit rates to solve rate problems
- Determine whether two quantities are in a proportional relationship
  - Determine whether ratios form a proportion.
  - Explain how to determine whether quantities are proportional.
  - Distinguish between proportional and nonproportional situations
- Use proportions to solve ratio problems and make circle graphs
  - Solve proportions using various methods.
  - Find a missing value that makes two ratios equivalent.
  - Use proportions to represent and solve real-life problems.
  - Make circle graphs
- Represent proportional relationships using graph and equations
  - Determine whether quantities are proportional using a graph.
  - Find the unit rate of a proportional relationship using a graph.
  - Create equations to represent proportional relationships
- Solve problems involving scale drawings
  - Find an actual distance in a scale drawing.

- Explain the meaning of scale and scale factor.
- Use a scale drawing to find the actual lengths and areas of real-life objects

## **Benchmark Assessments**

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### **Schoolwide Benchmark assessments:**

- Linkit Benchmarks (Form A in September, Form B in January, Form C in June): Linked to NJSLA standards

### **Additional Benchmarks used in this unit:**

- IXL Diagnostic + continued practice during IXL periods

## **Formative Assessments**

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### **Formative Assessments used in this unit:**

- Kahoot! Games
- Quizizz Games
- Homework
- Q & A
- Scavenger Hunts
- Coloring Activities
- Task Cards
- Partner Activities

## **Summative Assessments**

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### **Summative assessments for this unit:**

- Chapter Test
- Quizzes

## **Instructional Materials**

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1. Big Ideas Math: Math & You 6th Grade Textbook
2. Quizizz
3. Kahoot!
4. Scavenger Hunts
5. Task Cards
6. Coloring Activities
7. GimKit

## **Standards**

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