



Proportional Reasoning Learning Objectives

Concept 1: Proportional Reasoning – Comparing Quantities

1. Students recognize, describe, and represent various comparisons in familiar real-life situations, distinguishing between relative or multiplicative thinking and absolute or additive thinking.
2. Students recognize, represent, and compute the relationship between two quantities using ratios, including unit ratios.
3. Students distinguish between the numeric value of a ratio and what it represents and use values to compare ratios.
4. Students recognize similar figures and use scale factors to compare relative sizes.

Concept 2: Proportions

5. Students use equivalent ratios to solve problems involving proportions.
6. Students determine unit rates to make comparisons.
7. Students identify and find the relationships between similar figures using scale factors.
8. Students find and use equivalent ratios to convert from one unit of measurement to another.

Concept 3: Strategies for Problem Solving in Proportional Reasoning

9. Students use different strategies to solve familiar problems such as work, mixture, and distance problems.
10. Students apply proportional reasoning tools to problems using real data.