

UNIT ARC OF LEARNING™ (AoL)

The development of reasoning with ratios continues throughout the rest of grade 6 at the analysis level. It deepens in several grade 7 units as proportional reasoning is used to reason within the context of rational numbers, similarity (scale drawings), probability, statistics, and linear relationships.

| Comparing Quantities: Ratios, Rates, and Equivalence (AoL) | | | | | |
|--|--|-------------------------------------|---------------------------------|------------------------------------|------------------------------------|
| Reasoning with Ratios | Introduction <i>Setting the Scene</i> | Exploration <i>Mucking About</i> | Analysis <i>Going Deeper</i> | Synthesis <i>Looking Across</i> | Abstraction <i>Going Beyond</i> |
| Investigation 1. Making Comparisons | | | | | |
| Problem 1.1 Fundraising: Making Comparisons | 1.1 | | | | |
| Problem 1.2 Fundraising Update: Ratios as Comparisons | 1.2 | 1.2 | | | |
| Problem 1.3 Making Cupcakes: Part-to-Part or Part-to-Whole Ratios | | 1.3 | | | |
| Mathematical Reflection | | MR | | | |
| Investigation 2. Using Ratios to Solve Problems | | | | | |
| Problem 2.1 Packaging Cupcakes: Using Ratios | | 2.1 | | | |
| Problem 2.2 Selling Cupcakes: Representing Ratios with Tables | | 2.2 | | | |
| Problem 2.3 Sharing Smoothie Bars: More Ratios | | 2.3 | 2.3 | | |
| Mathematical Reflection | | MR | MR | | |
| Investigation 3. Using Unit Rates and Rate Tables | | | | | |
| Problem 3.1 Selling Smoothie Bars: Unit Rates | | 3.1 | 3.1 | | |
| Problem 3.2 Making Popcorn: More Unit Rates and Tables | | 3.2 | 3.2 | | |
| Problem 3.3 Experimenting with Slime: Solving Problems with Ratios | | 3.3 | 3.3 | | |
| Problem 3.4 Walking Backward: More Ratio Problems | | | 3.4 | | |
| Mathematical Reflection | | | MR | | |
| Investigation 4. For Every 100: Introducing Percent | | | | | |
| Problem 4.1 Percent: Out of 100 | | 4.1 | | | |
| Problem 4.2 Surveys, Percents, and Tape Diagrams | | 4.2 | 4.2 | | |
| Problem 4.3 Genetic Traits: Finding Any Percent | | 4.3 | 4.3 | | |
| Problem 4.4 Making Sense of Percent Situations | | 4.4 | 4.4 | | |
| Mathematical Reflection | | | MR | | |