Understanding Proportional Relationships

Grade 7 Standards Parent Resource

Unit 1: Ratios and Proportional Relationships

Unit 1 includes 2 topics of study, listed below. This resource is for Topic 1.

Topic 1

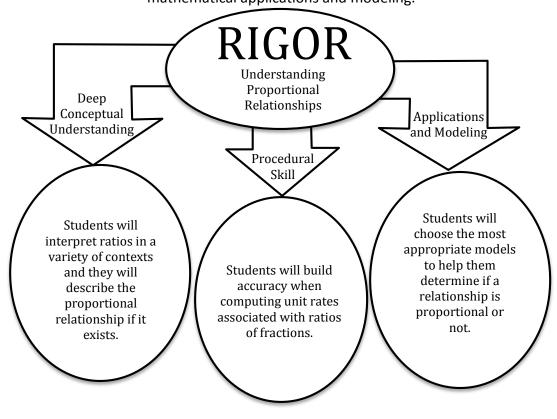
Topic 2

Understanding Proportional Relationships

Application of Proportional Relationships

	Learning Goals by <u>Common Core State Standard</u>
Topic	Students will be able to
Understanding Ratios and Rates	 Reason about and compute <u>unit rates</u> associated with ratios of fractions, including ratios of lengths, areas and other quantities measured in like or different units. Decide whether two quantities are in a proportional relationship, e.g., by testing for equivalent ratios in <u>a table</u> or <u>graphing on a coordinate plane</u> and observing if the graph is a straight line through the origin. Identify the constant of proportionality (unit rate) in tables, graphs, <u>equations</u>, diagrams, and verbal descriptions of proportional relationships. Represent proportional relationships by <u>equations</u>. <u>Explain what a point (x, y) on the graph</u> of a proportional relationship means in terms of the situation, with special attention to the points (0, 0) and (1, <i>r</i>) where <i>r</i> is the unit rate. <i>Instructional videos in the hyperlinks above are meant to support C2.0 content</i>, <i>but may use vocabulary or strategies not emphasized by MCPS</i>.

The Common Core State Standards require a balance of three fundamental components that result in rigorous mathematics acquisition: deep conceptual understanding, procedural skill, and mathematical applications and modeling.



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Unit 1: Ratios and Proportional Relationships Topic 1: Understanding Proportional Relationships

