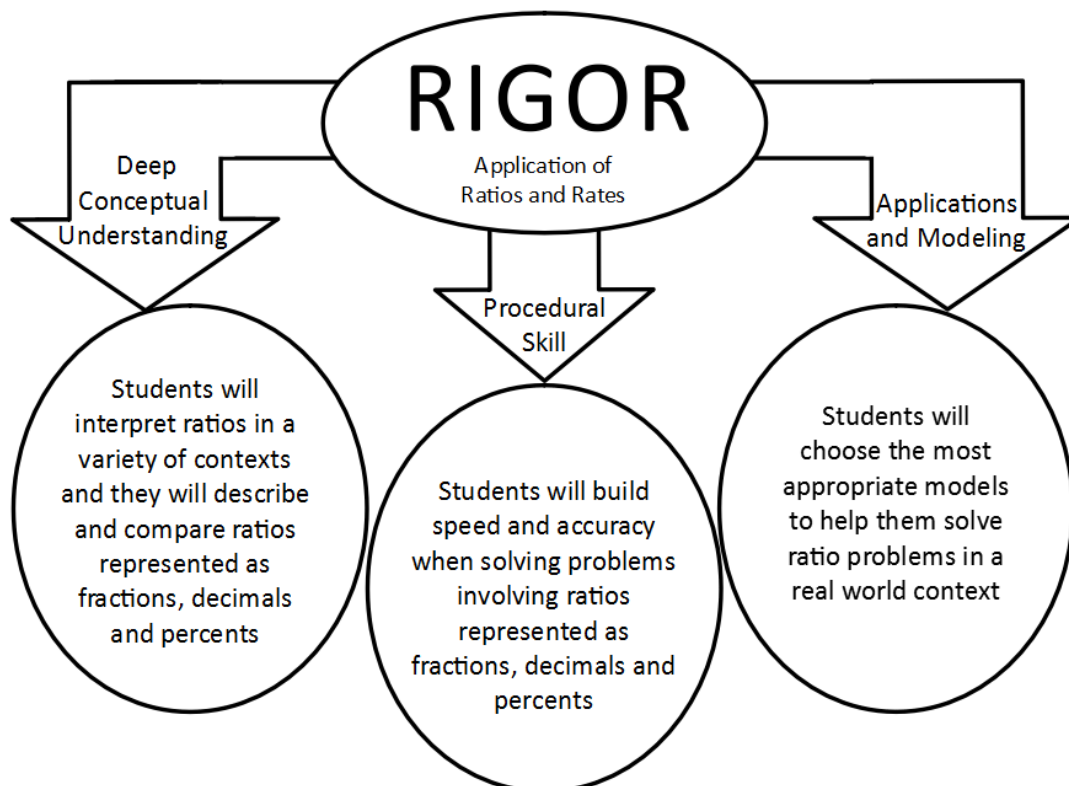


C2.0 Compacted 5/6 Parent Resource

Marking Period 2 – Topic 2: Application of Ratios and Rates

Topic	Learning Goals by <u>Common Core State Standard</u> <i>Students will be able to...</i>
Application of Ratios and Rates	<ul style="list-style-type: none"> • Make and interpret tables of equivalent ratios, including finding missing values. • Solve rate and ratio problems using multiple representations such as tape diagrams, double number line diagrams, coordinate planes and equations. • Solve unit rate problems including those involving unit pricing and constant speed. • Convert customary and metric units using ratio reasoning. (Additional specific examples) • Describe and compare ratios represented as fractions, decimals, and percent. • Solve problems involving percent, including finding the percent of a quantity and finding the part or whole. <p><i>Instructional videos in the hyperlinks above are meant to support C2.0 content, but may use vocabulary or strategies not emphasized by MCPS.</i></p>

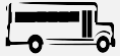
The Common Core State Standards require a balance of three fundamental components that result in rigorous mathematics acquisition: deep conceptual understanding, procedural skill and mathematical applications and modeling.



C2.0 Compacted 5/6 Parent Resource

Marking Period 2 - Topic 2: Application of Ratios and Rates

Learning Experiences by Common Core State Standard



In school, your child will...



At home, your child can...

Topic 2: Application of Ratios and Rates

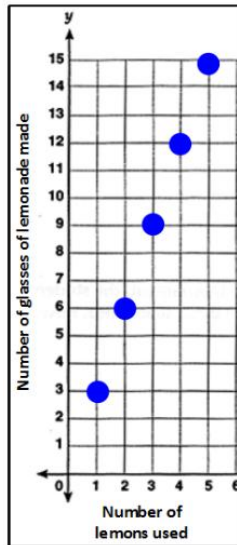
- Make and interpret tables of equivalent ratios, including finding missing values.

Pounds		2	6	7	12		
Cost (\$)	\$2.50		\$15.00		\$30.00	\$32.50	\$45.00

- Solve rate and ratio problems using multiple representations such as tape diagrams, double number line diagrams, graphs, and equations.

- *Laurel can make 6 glasses of lemonade from two lemons. At this rate, how many glasses of lemonade can be made from 5 lemons?*

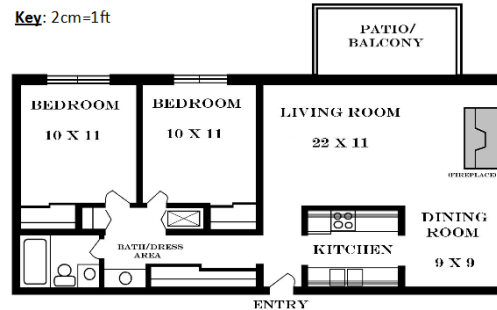
	3	6	9	12	15
Number of glasses of lemonade made					
	1	2	3	4	5
Number of lemons used					



- Convert customary and metric units using ratio reasoning.
 - *Laurel makes 4 gallons of lemonade. If she charges \$2.00 per quart, how much money will she make if she sells all of her lemonade?*
- Solve problems involving percent.
 - *Marc needs an 80% or higher on his math test to get a "B". If he answered 13 out of 16 questions correctly, will he earn a "B"?*

- Calculate and compare gas mileage (unit rate)
 - *Between two different vehicles*
 - *City driving vs. highway driving*
 - *Actual gas mileage vs. dealership advertised gas mileage*

- Create a scale model of their house/bedroom using a key



- Use unit rates to comparison shop
 - *Is it cheaper to buy 3 apples for \$1.05 or a bag of 10 apples for \$3.69?*
- Apply percent in daily life
 - *Calculate tip at a restaurant*
 - *Calculate discount and sale price at a grocery or clothing store*

Additional Practice

- [Calculate discount, sale price and percent of discount](#)
- [Solving ratio problems with a table](#)
- [Which tastes juicier?](#)
- [How much does it cost?](#)

Additional Practice links support C2.0 content, but may use vocabulary or strategies not emphasized by MCPS.