Week of 11/30-12/4 7 <sup>th</sup>	<b>Grade Math</b>
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<b>Topic:</b> Unit Rates, Ratios, Proportions, Constant of Proportionality	<ul> <li>Standards:</li> <li>7.RP.1 Compute unit rates associated with ratios of fractions, including ratios of lengths, areas and other quantities measured in like or different units.</li> <li>7. RP.2 Recognize and represent proportional relationships between quantities</li> </ul>
Lesson Essential Question:	Students will be able to
<ul> <li>In what ways can ratios of fractions be expressed as unit rates?</li> <li>How would you recognize and represent proportional relationships between quantities measured in like or different units?</li> </ul>	<ul> <li>Compute unit rates with ratios of fractions.</li> <li>Compute unit rates with ratios measured in like and different units.</li> <li>Determine if two quantities are proportional using a variety of methods.</li> <li>Identify the constant of proportionality in a table, graph, and equation.</li> <li>Represent a proportional relationship in an equation.</li> </ul>
Activating Strategy: BrainPOP video	Vocabulary:         • Unit rate, ratios, proper fractions, improper fractions, complex fractions, proportions, proportional relationships, constant of proportionality, x-coordinate, y-coordinate, equivalent ratios, cross-product

Lesson Instruction	
Learning Activity 1:	Graphic Organizer:
<ul> <li>Creating and solving proportions in real-world problems</li> </ul>	Bubble Concept Map
<ul> <li>Determining Proportionality in Tables</li> </ul>	on Constant of Proportionality
Assessment Prompt for LA 1:	
Thumbs up-Thumbs down	Frayer Model
Learning Activity 2:	
Review activity with partner	
Assessment Prompt for LA 2:	
Review discussion	
Learning Activity 3:	Assignment:
• Test	<ul> <li>Spiral Review</li> </ul>
Assessment Prompt for LA 3:	Thanksgiving math
<ul> <li>Test on Unit Rates, Ratios, and Proportions</li> </ul>	problems
	<ul> <li>Creating and solving</li> </ul>
Learning Activity 4:	proportions from
Constant of Proportionality graphic organizer	real-world problems
<ul> <li>Identifying the constant of proportionality in a table, graph, and</li> </ul>	
equations	
Assessment Prompt for LA 4:	
Classwork problems	
Learning Activity 5:	
Constant of Proportionality Sorting Activity	

Constant of Proportionality Multi-Step Problems	
Assessment Prompt for LA 5:	
Accuracy of sorting game results	

## **Summarizing Strategy:**

- 3-2-1
- Respond to Essential Question with partner