

Hickman County Curriculum Map

Seventh Grade

Mathematics

Second Six Weeks

Grade Level Expectations	Checks for Understanding	Student Performance Indicator(s)
GLE 0706.2.4 Use ratios, rates and percents to solve single- and multi-step problems in various contexts.	<p>0706.2.8 Apply ratios, rates, proportions and percents (such as discounts, interest, taxes, tips, distance/rate/time, and percent increase or decrease).</p> <p>0706.4.5 Solve problems using ratio quantities: velocity (measured in units such as miles per hour), density (measured in units such as kilograms per liter), pressure (measured in units such as pounds per square foot), and population density (measured in units such as persons per square mile).</p>	SPI 0706.2.6 Express the ratio between two quantities as a percent, and a percent as a ratio or fraction.
GLE 0706.2.2 Understand and work with the properties of and operations on the system of rational numbers.	<p>0706.2.1 Understand that the set of rational numbers includes any number that can be written as a ratio of two integers in which the denominator is not zero.</p> <p>0706.2.9 Efficiently compare and order rational numbers and roots of perfect squares/cubes; determine their approximate locations on a number line.</p> <p>0706.2.10 Recognize that when a whole number is not a perfect square, then its square root is not rational and cannot be written as the ratio of two</p>	SPI 0706.2.2 Compare rational numbers using appropriate inequality symbols.

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	integers. 0706.2.11 Estimate square/cube roots and use calculators to find approximations.	
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Unit Review and Assessment

GLE 0706.2.4 Use ratios, rates and percents to solve single- and multi-step problems in various contexts.	0706.2.7 Write number sentences to solve contextual problems involving ratio and percent. 0706.2.8 Apply ratios, rates, proportions and percents (such as discounts, interest, taxes, tips, distance/rate/time, and percent increase or decrease).	SPI 0706.2.7 Use ratios and proportions to solve problems.
GLE 0706.1.5 Use mathematical ideas and processes in different settings to formulate patterns, analyze graphs, set up and solve problems and interpret solutions.	0706.2.7 Write number sentences to solve contextual problems involving ratio and percent. 0706.2.8 Apply ratios, rates, proportions and percents (such as discounts, interest, taxes, tips, distance/rate/time, and percent increase or decrease).	SPI 0706.1.1 Use proportional reasoning to solve mixture/concentration problems.

Unit Review and Assessment

GLE 0706.4.1 Understand the application of	0706.2.8 Apply ratios, rates, proportions and percents (such as discounts, interest, taxes, tips, distance/rate/time, and percent increase or	SPI 0706.4.1 Solve contextual problems involving similar triangles.
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<p>proportionality with similar triangles.</p>	<p>decrease).</p> <p>0706.4.1 Solve problems involving indirect measurement such as finding the height of a building by comparing its shadow with the height and shadow of a known object.</p> <p>0706.4.2 Use similar triangles and proportionality to find the lengths of unknown line segments in a triangle.</p> <p>0706.4.4 Compare angles, side lengths, perimeters and areas of similar shapes.</p>	<p>SPI 0706.4.2 Use SSS, SAS, and AA to determine if two triangles are similar.</p>
<p>GLE 0706.1.5 Use mathematical ideas and processes in different settings to formulate patterns, analyze graphs, set up and solve problems and interpret solutions.</p>	<p>0706.1.7 Explain and demonstrate how scale in maps and drawings shows relative size and distance.</p> <p>0706.1.8 Recognize the applications of scale factor by exploring blueprints, shadow measuring, and scale models.</p> <p>0706.2.8 Apply ratios, rates, proportions and percents (such as discounts, interest, taxes, tips, distance/rate/time, and percent increase or decrease).</p>	<p>SPI 0706.1.4 Use scales to read maps.</p>
<p>GLE 0706.4.3 Understand and use scale factor to</p>	<p>0706.2.8 Apply ratios, rates, proportions and percents (such as discounts, interest, taxes, tips, distance/rate/time, and percent increase or</p>	<p>SPI 0706.4.3 Apply scale factor to solve problems involving area and volume.</p>

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describe the relationships between length, area, and volume.	decrease). 0706.4.3 Understand that if a scale factor describes how corresponding lengths in two similar objects are related, then the square of the scale factor describes how corresponding areas are related, and the cube of the scale factor describes how corresponding volumes are related.	
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Unit Review and Assessment