

Indiana Curriculum Matrix for Mathematics

Indiana Mathematics Standards/Strands/ Learning Expectations Grade 7	Common Core Mathematics Domains/Standards Grade 7	National Essential Skills Study (NESS) Rankings Rank	NESS	ISTEP+	Priority
7.1.1 Read, write, compare, and solve problems using whole numbers in scientific notation.	<i>There is no Indiana Mathematics Learning Expectation-Common Core alignment.</i>	M20 Understand and apply the basic properties and laws of exponents and scientific notation to solve problems, including those with fractional, negative, and zero exponents.	M	H	H
7.2.2 Calculate the percentage increase and decrease of a quantity.	<u>Ratios and Proportional Relationships</u> Analyze proportional relationships and use them to solve real-world and mathematical problems. 3. Use proportional relationships to solve multistep ratio and percent problems. <i>Examples: simple interest, tax, markups and markdowns, gratuities and commissions, fees, percent increase and decrease, percent error.</i>	M1 Perform operations fluently with positive and negative numbers, including decimals, ratios, percents, and fractions, and show reasoning to justify results.	H	M	H
7.2.3 Solve problems that involve discounts, markups, and commissions.	<u>Ratios and Proportional Relationships</u> Analyze proportional relationships and use them to solve real-world and mathematical problems. 3. Use proportional relationships to solve multistep ratio and percent problems. <i>Examples: simple interest, tax, markups and markdowns, gratuities and commissions, fees, percent increase and decrease, percent error.</i>	M1 Perform operations fluently with positive and negative numbers, including decimals, ratios, percents, and fractions, and show reasoning to justify results.	H	M	H
		M21 Evaluate and employ accurate and appropriate procedures for statistical data collection, organization, analysis, and display including making estimates and predictions, critiquing data, and drawing inferences (e.g., using the normal curve and z-scores, line of best fit).			
7.3.8 Draw the graph of a line given the slope and one point on the line, or two points on the line.	<i>There is no Indiana Mathematics Learning Expectation-Common Core alignment.</i>	M44 Know the equation of a line and interpret graphically using the slope-intercept form ($y = M+b$) and the point-slope form ($y-b = m(x-a)$).	L	H	M