

Model Academic Standards

Number		DOK
B.8.1.	Read, represent, and interpret rational numbers (whole numbers, integers, decimals, fractions, and percents) with verbal descriptions, geometric models, and mathematical notation (e.g., expanded, scientific, exponential).	
B.8.2.	Perform and explain operations on rational numbers (add, subtract, multiply, divide, raise to a power, extract a root, take opposites and reciprocals, determine absolute value).	
B.8.3.	Generate and explain equivalencies among fractions, decimals, and percents.	
B.8.4.	Express order relationships, among rational numbers using appropriate symbols ($>$, $<$, \geq , \leq , \neq).	
B.8.5.	Apply proportional thinking in a variety of problem situations that include but are not limited to: <ul style="list-style-type: none"> • Ratios and proportions (e.g., rates, scale drawings, similarity) • Percents, including those greater than 100 and less than 1 (e.g., discounts, rate of increase or decrease, sales tax) 	
B.8.6.	Model and solve problems involving number-theory concepts such as <ul style="list-style-type: none"> • Prime and composite numbers • Divisibility and remainders • Greatest common factors • Least common multiples 	
B.8.7.	In problem-solving situations, select and use appropriate computational procedures with rational numbers such as <ul style="list-style-type: none"> • Calculating mentally • Estimating • Creating, using, and explaining algorithms • Using technology (e.g., scientific calculators, spreadsheets) 	

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Geometry		DOK
C.8.1.	<p>Describe special and complex two- and three-dimensional figures (e.g., rhombus, polyhedron, cylinder) and their component parts (e.g., base, altitude, and slant height) by</p> <ul style="list-style-type: none">• Naming, defining, and giving examples• Comparing, sorting, and classifying them• Identifying and contrasting their properties (e.g., symmetrical, isosceles, regular)• Drawing and constructing physical models to specifications• Explaining how these figures are related to objects in the environment	
C.8.2.	<p>Identify and use relationships among the component parts of special and complex two- and three-dimensional figures (e.g., parallel sides, congruent faces).</p>	
C.8.3.	<p>Identify three-dimensional shapes from two-dimensional perspectives and draw two-dimensional sketches of three-dimensional objects, preserving their significant features.</p>	
C.8.4.	<p>Perform transformations on two-dimensional figures and describe and analyze the effects of the transformations on the figures.</p>	
C.8.5.	<p>Locate objects using the rectangular coordinate system.</p>	