

Grade Level: 7 Competency/Proficiency Analysis by Module (Modules 1-4) v. 12-29-18

Code	Competency Statement/Proficiency Scale Statement	M1	M2	M3	M4	M5	M6
Ratios and Proportional Relationships - 7.RP.A	Skill Competency: Students will analyze proportional relationships and use them to solve real-world and mathematical problems.						
Ratios and Unit Rates - 7.RTUR.2A	I can decide whether two quantities are in a proportional relationship. (7.RP.A.2a)	X,M,E			M		
Ratios and Unit Rates - 7.RTUR.2B	I can identify the constant of proportionality or unit rate. (7.RP.A.2b)	X,M,E			M		
Ratios and Unit Rates - 7.RTUR.2C	I can represent proportional relationships by equations. (7.RP.A.2c)	X,M,E			X,M,E		
Ratios and Unit Rates - 7.RTUR.3A	I can compute unit rates associated with ratios of fractions measured in like or unlike units. (7.RP.A.1)	X, E			X,M,E		
Ratios and Unit Rates - 7.RTUR.3B	I can explain what a point (x, y) on the graph of a proportional relationship means in terms of the situation, with special attention to the points (0, 0) and (1, r) where r is the unit rate. (7.RP.A.2d)	X,M,E			M		
Ratios and Unit Rates - 7.RTUR.3C	I can use proportional relationships to solve multistep ratio and percent problems (for example, simple interest, tax, markups and markdowns, gratuities and commissions, fees, percent increase and decrease, percent error). (7.RP.A.3)	X, E			X,M,E		
The Number System - 7.NS.A	Content Competency: Students will apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational numbers.						
Addition and Subtraction - 7.AS.2A	I can represent addition and subtraction with rational numbers on a horizontal or vertical number line diagram. (7.NS.A.1)		X,M,E				
Addition and Subtraction - 7.AS.2B	I can interpret sums and differences in real-world contexts. (7.NS.A.1a; 7.NS.A.1b; 7.NS.A.1c)		X,M,E		X		
Addition and Subtraction - 7.AS.2C	I can use properties of operations as strategies to add and subtract integers.		X, M				
Multiplication and Division - 7.MD.2A	I can interpret the products and quotients of integers in real-world contexts.		X,M,E				
Multiplication and Division - 7.MD.2B	I know that rational numbers must have a nonzero divisor. (7.NS.A.2b)						
Multiplication and Division - 7.MD.2C	I can apply properties of operations as strategies to multiply and divide with integers.		X				
Multiplication and Division - 7.MD.2D	I know rational numbers can be written as terminating or repeating decimals. (7.NS.A.2d)		X,M,E				
Addition and Subtraction - 7.AS.3A	I can apply properties of operations as strategies to add and subtract rational numbers. (7.NS.A.1d)		X, M				
Addition and Subtraction - 7.AS.3B	I can solve real-world and mathematical problems involving the addition and subtraction of rational numbers. (7.NS.A.3)		X, E				

Multiplication and Division - 7.MD.3A	I can interpret the products and quotients of rational numbers in real-world contexts. (7.NS.A.2a; 7.NS.A.2b)		M				
Multiplication and Division - 7.MD.3B	I can apply properties of operations as strategies to multiply and divide rational numbers. (7.NS.A.2c)		X				
Multiplication and Division - 7.MD.3C	I can solve real-world and mathematical problems involving the multiplication and division of rational numbers. (7.NS.A.3)		X,M,E				
Expressions and Equations - 7.EE.A	Skill Competency: Students will use properties of operations to generate equivalent expressions.						
Expressions and Equations - 7.EEQ.2A	I can apply properties of operations to simplify linear expressions with rational coefficients.			X,M,E			
Expressions and Equations - 7.EEQ.3A	I can apply properties of operations as strategies to add, subtract, factor, and expand linear expressions with rational coefficients. (7.EE.A.1)			X, M			
Expressions and Equations - 7.EEQ.3B	I can rewrite expressions in different forms in a problem context to demonstrate how quantities are related (for example, $a + 0.05a = 1.05a$ means that "increase by 5%" is the same as "multiply by 1.05"). (7.EE.A.2)		X, E	X,M,E			
Expressions and Equations – 7.EE.B	Skill Competency: Students will solve real-life and mathematical problems using numerical and algebraic expressions and equations.						
Equations and Inequalities - 7.EQIE.2A	I can solve multistep real-world and mathematical problems posed with integers in any form.						
Equations and Inequalities - 7.EQIE.2B	I can convert among fraction, decimal, and percent as appropriate. (7.EE.B.3)				X,M,E		
Equations and Inequalities - 7.EQIE.3A	I can solve multi-step real-world and mathematical problems posed with rational numbers in any form. (7.EE.B.3)			X, M	X,M,E		
Equations and Inequalities - 7.EQIE.3B	I can assess the reasonableness of answers using mental computation and estimation strategies. (7.EE.B.3)			X, M	X,M,E		
Equations and Inequalities - 7.EQIE.3C	I can solve word problems leading to equations of the form $px + q = r$ and $p(x + q) = r$. (7.EE.B.4a)	X, E	X, E	X, M			
Equations and Inequalities - 7.EQIE.3D	I can solve and graph word problems leading to inequalities of the form $px + q > r$ and $px + q < r$. (7.EE.B.4b)			X, M			
Geometry - 7.G.A	Skill Competency: Students will draw, construct and describe geometrical figures and describe the relationships between them.						
Shapes - 7.SHAP.2A	I can recognize that no triangle, a unique triangle, or multiple triangles can be formed from a given set of conditions. (7.G.A.2)						
Shapes - 7.SHAP.2B	I can construct geometric figures with given conditions. (7.G.A.2)						
Scale Drawings - 7.SCLD.2A	I can reproduce a scale drawing at a different scale. (7.G.A.1)	X			X, E		
Shapes - 7.SHAP.3A	I can describe the two-dimensional figures that result from slicing three-dimensional figures. (7.G.A.3)						

Scale Drawings - 7.SCLD.3A	I can solve problems involving scale drawings of geometric figures. (7.G.A.1)	X, E			X, E		
Scale Drawings - 7.SCLD.3B	I can compute real distances from a scale drawing. (7.G.A.1)	X, E			X		
Geometry - 7.G.B	Skill Competency: Students will solve real-life and mathematical problems involving angle measure, area, surface area, and volume.						
Area - 7.AREA.2A	I can recognize or recall the formulas for the area and circumference of a circle.			X, E			
Area - 7.AREA.2B	I can recognize or recall the formulas for the area of two- and three-dimensional figures.			X			
Area - 7.AREA.2C	I can calculate area using scale drawings. (7.G.A.1)	X, E					
Surface Area - 7.SFAR.2A	I can recognize or recall the formulas for the surface area of two- and three-dimensional figures.			X			
Volume - 7.VOL.2A	I can recognize or recall the formulas for volume of cubes and right prisms.			X			
Angles - 7.ANGL.2A	I can recognize or recall the features of complementary, supplementary, vertical, and adjacent angles.			M			
Area - 7.AREA.3A	I can use the formulas for the area and circumference of a circle to solve problems. (7.G.B.4)			X, E			
Area - 7.AREA.3B	I can solve real-world and mathematical problems involving the area of two- and three-dimensional shapes composed of triangles, quadrilaterals, polygons, cubes, and right prisms. (7.G.B.6)			X, E			
Surface Area - 7.SFAR.3A	I can solve real-world and mathematical problems involving the surface area of two- and three-dimensional shapes composed of triangles, quadrilaterals, polygons, cubes, and right prisms. (7.G.B.6)			X, E			
Volume - 7.VOL.3A	I can solve real-world and mathematical problems involving volume of three-dimensional shapes composed of cubes and right prisms. (7.G.B.6)			X, E			
Angles - 7.ANGL.3A	I can use facts about supplementary, complementary, vertical, and adjacent angles in a multistep problem to write and solve simple equations for an unknown angle in a figure. (7.G.B.5)			X, M, E			
Statistics and Probability - 7.SP.A	Content Competency: Students will use random sampling to draw inferences about a population.						
Random Sampling - 7.RSMP.2A	I can recognize reasonable inferences about a population.						
Random Sampling - 7.RSMP.2B	I can generate multiple samples of the same size to gauge the variation in estimates or predictions. (7.SP.A.2)						
Random Sampling - 7.RSMP.3A	I can recognize that different random samples from a population may yield different inferences. (7.SP.A.1)						
Random Sampling - 7.RSMP.3B	I can draw inferences about a population using data from a random sample. (7.SP.A.2)						

Random Sampling - 7.RSMP.3C	I can analyze variation of multiple samples. (7.SP.A.2)						
Statistics and Probability - 7.SP.B	Content Competency: Students will draw informal comparative inferences about two populations.						
Data Distributions - 7.DATD.2A	I can informally assess the degree of visual overlap of two numerical data distributions. (7.SP.B.3)						
Data Distributions - 7.DATD.3A	I can use measures of center and measures of variability for numerical data from random samples to draw informal comparative inferences about two populations. (7.SP.B.4)						
Statistics and Probability - 7.SP.C	Skill Competency: Students will investigate chance processes and develop, use, and evaluate probability models.						
Probability - 7.PROB.2A	I can collect data on a chance process and predict probability. (7.SP.C.6)						
Probability - 7.PROB.3A	I can develop a probability model and use it to find probabilities of events. (7.SP.C.7)						
Probability - 7.PROB.3B	I can compare probabilities from a model to observed frequency and reason about differences between the model and observed frequency. (7.SP.C.7)						
Probability - 7.PROB.3C	I can find probabilities of compound events using organized lists, tables, tree diagrams, and simulation. (7.SP.C.8)						