

Common Core State Standards with California Additions¹ Standards Map for a Basic Grade-Level Program

Grade Seven – Mathematics

Standard No.	Standard Language	Publisher Citations		Meets Standard		For Reviewer Use Only
		Primary Citations	Supporting Citations	Y	N	Reviewer Notes
	RATIOS AND PROPORTIONAL RELATIONSHIPS					
	Analyze proportional relationships and use them to solve real-world and mathematical problems.					
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. <i>For example, if a person walks 1/2 mile in each 1/4 hour, compute the unit rate as the complex fraction $\frac{1/2}{1/4}$ miles per hour, equivalently 2 miles per hour.</i>	Develop Conceptual Understanding : SE: 117-119 TE: 117-119 Fluency: SE: 120-122, TE: 120	SE: 123, 125, 131-132, 135-136, 161, 164 TE: 123, 125, 131-132, 135-136, 161			

¹ These standards were originally produced by the Common Core State Standards Initiative, a state-led effort coordinated by the National Governors Association Center for Best Practices and the Council of Chief State School Officers. California additions were made by the State Board of Education when it adopted the Common Core on August 2, 2010 and modified pursuant to Senate Bill 1200 located at <http://tinyurl.com/CASB1200> on January 16, 2013. Additions are marked in bold and underlined.

Standard No.	Standard Language	Publisher Citations		Meets Standard		For Reviewer Use Only
		Primary Citations	Supporting Citations	Y	N	Reviewer Notes
		Application: SE: 119-122 TE: 121				
7.RP.2a.	Recognize and represent proportional relationships between quantities. Decide whether two quantities are in a proportional relationship, e.g., by testing for equivalent ratios in a table or graphing on a coordinate plane and observing whether the graph is a straight line through the origin.	Develop Conceptual Understanding: SE: 123-126, 129-130 TE: 123-126, 129-131 Fluency: SE: 126-128, 131-134 TE: 126-128, 132 Application: SE: 124-125, 127-128, 131, 133-134 TE: 124-125, 127	SE: 135-136, 162, 165-166 TE: 135-136, 162, 165-166			

Standard No.	Standard Language	Publisher Citations		Meets Standard		For Reviewer Use Only
		Primary Citations	Supporting Citations	Y	N	Reviewer Notes
7.RP.2b.	Recognize and represent proportional relationships between quantities. Identify the constant of proportionality (unit rate) in tables, graphs, equations, diagrams, and verbal descriptions of proportional relationships.	Develop Conceptual Understanding : SE: 123–125, 129–130 TE: 123–125, 129, 131 Fluency: SE: 126, 130 Application: SE: 127, 130	SE: 127–128 TE: 126–128			
7.RP.2c.	Recognize and represent proportional relationships between quantities. Represent proportional relationships by equations. <i>For example, if total cost t is proportional to the number n of items purchased at a constant price p, the relationship between the total cost and the number of items can be expressed as $t = pn$.</i>	Develop Conceptual Understanding : SE: 125–126 TE: 125, 131 Fluency: SE: 126, 127 TE: 126 Application:	SE: 128, 131, 132–134, 135, 136 TE: 127, 128, 130, 132, 134			

Standard No.	Standard Language	Publisher Citations		Meets Standard		For Reviewer Use Only
		Primary Citations	Supporting Citations	Y	N	Reviewer Notes
		SE: 127				
7.RP.2d.	Recognize and represent proportional relationships between quantities. 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.	Develop Conceptual Understanding : SE: 129–131 TE: 129, 131 Fluency: SE: 135 TE: 132 Application: SE: 133	SE: 132, 134, 135, 161, 162 TE: 133, 134, 161			
7.RP.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>	Develop Conceptual Understanding : SE: 141–143, TE: 141–143 Fluency: SE: 144–146 TE: 144–146 Application: SE: 145–146	SE: 147– 149, 150–152, 153–155, 156–158, 159, 160, 162 TE: 147– 149, 150– 152, 153, 156–158,			

Standard No.	Standard Language	Publisher Citations		Meets Standard		For Reviewer Use Only
		Primary Citations	Supporting Citations	Y	N	Reviewer Notes
			160			
	THE NUMBER SYSTEM					
	Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational numbers.					
7.NS 1 a.	Apply and extend previous understandings of addition and subtraction to add and subtract rational numbers; represent addition and subtraction on a horizontal or vertical number line diagram. Describe situations in which opposite quantities combine to make 0. <i>For example, a hydrogen atom has 0 charge because its two constituents are oppositely charged.</i>	Develop Conceptual Understanding : SE: 13, 15 TE: 15 Fluency: SE: 16, 17 TE: 18 Application SE: 17	SE: 70, 72, 74 TE: 71			
7.NS 1 b..	Apply and extend previous understandings of addition and subtraction to add and subtract rational numbers; represent addition and subtraction on a horizontal or vertical	Develop Conceptual Understanding : SE: 8, 13–15	SE: 31, 32, 67–70, 72–74 TE: 32, 67–			

Standard No.	Standard Language	Publisher Citations		Meets Standard		For Reviewer Use Only
		Primary Citations	Supporting Citations	Y	N	Reviewer Notes
	number line diagram. Understand $p + q$ as the number located a distance $ q $ from p , in the positive or negative direction depending on whether q is positive or negative. Show that a number and its opposite have a sum of 0 (are additive inverses). Interpret sums of rational numbers by describing real-world contexts.	TE: 13–15 Fluency: SE: 11–12, 16–18 TE: 11–12, 16–18 Application: SE: 18	70, 72–74			
7.NS 1.c.	Apply and extend previous understandings of addition and subtraction to add and subtract rational numbers; represent addition and subtraction on a horizontal or vertical number line diagram. Understand subtraction of rational numbers as adding the additive inverse, $p - q = p + (-q)$. Show that the distance between two rational numbers on the number line is the absolute value of their difference, and apply this principle in real-world contexts.	Develop Conceptual Understanding: SE: 20–21 TE: 19 Fluency: SE: 22–24 TE: 22–24	SE: 31, 32, 77–78, 79–82, 101, 102 TE: 32, 77–78, 79, 82, 102			
7.NS 1.d.	Apply and extend previous understandings of addition and subtraction to add and subtract rational numbers; represent addition and	Develop Conceptual Understanding:	SE: 9, 11–12, 26, 27, 28–29, 49–51, 54			

Standard No.	Standard Language	Publisher Citations		Meets Standard		For Reviewer Use Only
		Primary Citations	Supporting Citations	Y	N	Reviewer Notes
	subtraction on a horizontal or vertical number line diagram. Apply properties of operations as strategies to add and subtract rational numbers.	SE: 67–71 TE: 69, 71 Fluency: SE: 72–74 Application: SE: 73 TE: 74	TE: 9, 10, 26, 27, 28, 50			
7.NS 2a.	Apply and extend previous understandings of multiplication and division and of fractions to multiply and divide rational numbers. Understand that multiplication is extended from fractions to rational numbers by requiring that operations continue to satisfy the properties of operations, particularly the distributive property, leading to products such as $(-1)(-1) = 1$ and the rules for multiplying signed numbers. Interpret products of rational numbers by describing real-world contexts.	Develop Conceptual Understanding : SE: 37–39 TE: 37–39 Fluency: SE: 40–42 TE: 40–42 Application: SE: 41	SE: 52–54, 55, 83–85, 86–88 TE: 52–54, 83–85, 86–88, 101			
7.NS 2b.	Apply and extend previous understandings of multiplication and division and of fractions to multiply and divide rational numbers. Understand	Develop Conceptual Understanding :	SE: 45–46, 47–48, 61–63, 64, 65–66,			

Standard No.	Standard Language	Publisher Citations		Meets Standard		For Reviewer Use Only
		Primary Citations	Supporting Citations	Y	N	Reviewer Notes
	that integers can be divided, provided that the divisor is not zero, and every quotient of integers (with non-zero divisor) is a rational number. If p and q are integers, then $-(p/q) = (-p)/q = p/(-q)$. Interpret quotients of rational numbers by describing real world contexts.	SE: 43–44, 89–90 TE: 43, 45, 61, 63, 89, 91 Fluency: SE: 93 TE: 46, 64, 92	91–92, 94, 101 TE: 44, 47–48, 62, 65, 66, 90, 93, 94			
7.NS 2c.	Apply and extend previous understandings of multiplication and division and of fractions to multiply and divide rational numbers. Apply properties of operations as strategies to multiply and divide rational numbers.	Develop Conceptual Understanding : SE: 89–91 TE: 89–91 Fluency: SE: 92–94 TE: 92–94	SE: 49–51, 52–54, 55, 56, 83–85, 86–88, 95–97, 98–100 TE: 49–51, 52–54, 56, 83–85, 86–88, 95–97, 98–100			
7.NS 2d.	Apply and extend previous understandings of multiplication and division and of fractions to multiply and	Develop Conceptual Understanding	SE: 43–45, 46–48, 92–93,			

Standard No.	Standard Language	Publisher Citations		Meets Standard		For Reviewer Use Only
		Primary Citations	Supporting Citations	Y	N	Reviewer Notes
	divide rational numbers. Convert a rational number to a decimal using long division; know that the decimal form of a rational number terminates in 0s or eventually repeats.	: SE: 61–63 TE: 61–63 Fluency: SE: 64–66 TE: 64–66 Application: SE: 65–66	101, 102, 364, 396 TE: 43–45, 46–48, 102			
7.NS.3.	Solve real-world and mathematical problems involving the four operations with rational numbers. ²	Develop Conceptual Understanding: SE: 67–71 TE: 67–71 Fluency: SE: 72–74 TE: 72–74 Application: SE: 73–74	SE: 75–78, 80–82, 83–85, 86–88, 89–91, 92–94 TE: 75–77, 80–82, 83–85, 86–88, 89–91, 92–94			

² Computations with rational numbers extend the rules for manipulating fractions to complex fractions.

Standard No.	Standard Language	Publisher Citations		Meets Standard		For Reviewer Use Only
		Primary Citations	Supporting Citations	Y	N	Reviewer Notes
	EXPRESSIONS AND EQUATIONS					
	Use properties of operations to generate equivalent expressions.					
7.EE.1.	Apply properties of operations as strategies to add, subtract, factor, and expand linear expressions with rational coefficients.	Develop Conceptual Understanding: SE: 173-174 TE: 173, 176 Fluency: SE: 173-174, TE: 173 Application: SE: 173-174 TE: 173	SE: 175, 176, 177-178 TE: 174, 175, 177-178			
7.EE.2.	Understand that rewriting an expression in different forms in a problem context can shed light on the problem and how the quantities in it are related. <i>For example, $a + 0.05a = 1.05a$ means that “increase by 5%” is the same as “multiply by 1.05.”</i>	Develop Conceptual Understanding: SE: 147-148, 149-150 TE: 147, 149	SE: 159-160, 173-175, 176-178, 197, 198 TE: 148, 151, 152,			

Standard No.	Standard Language	Publisher Citations		Meets Standard		For Reviewer Use Only
		Primary Citations	Supporting Citations	Y	N	Reviewer Notes
		Fluency: SE: 150 TE: 150 Application: SE: 151- 152	173, 174, 175, 176, 177, 178, 198			
7.EE.3.	Solve multi-step real-life and mathematical problems posed with positive and negative rational numbers in any form (whole numbers, fractions, and decimals), using tools strategically. Apply properties of operations to calculate with numbers in any form; convert between forms as appropriate; and assess the reasonableness of answers using mental computation and estimation strategies. <i>For example: If a woman making \$25 an hour gets a 10% raise, she will make an additional 1/10 of her salary an hour, or \$2.50, for a new salary of \$27.50. If you want to place a towel bar 9 3/4 inches long in the center of a door that is 27 1/2 inches wide, you will need to place the bar about 9 inches from each edge; this estimate can be</i>	Develop Conceptual Understanding: SE: 95-97 TE: 95, 96, 97 Fluency: SE: 98-100, 101, 102 TE: 98, 99, 100, 102 Application: SE: 98- 100	SE: 25-27, 28-30, 31, 32, 49-51, 52-54, 55, 56, 153-155, 156-158 TE: 25, 26, 27, 28, 29, 30, 32, 49, 50, 51, 56, 153, 154, 155, 156, 157, 158			

Standard No.	Standard Language	Publisher Citations		Meets Standard		For Reviewer Use Only
		Primary Citations	Supporting Citations	Y	N	Reviewer Notes
	<i>used as a check on the exact computation.</i>					
7.EE 4a.	Use variables to represent quantities in a real-world or mathematical problem, and construct simple equations and inequalities to solve problems by reasoning about the quantities. Solve word problems leading to equations of the form $px + q = r$ and $p(x + q) = r$, where p , q , and r are specific rational numbers. Solve equations of these forms fluently. Compare an algebraic solution to an arithmetic solution, identifying the sequence of the operations used in each approach. <i>For example, the perimeter of a rectangle is 54 cm. Its length is 6 cm. What is its width?</i>	Develop Conceptual Understanding : SE: 191–193 TE: 191, 194 Fluency: SE: 194 TE: 193 Application: SE: 193–194 TE: 193	SE: 196, 197, 198 TE: 192, 195, 196			
7.EE 4b.	Use variables to represent quantities in a real-world or mathematical problem, and construct simple equations and inequalities to solve problems by reasoning about the quantities. Solve word problems leading to inequalities of the form $px + q > r$ or $px + q < r$, where p , q , and r are specific rational numbers. Graph the solution set of the	Develop Conceptual Understanding : SE: 203–204 TE: 203, 205, 206, 207	SE: 217–218, 219–220, 223–224 TE: 204, 209, 210, 217–222			

Standard No.	Standard Language	Publisher Citations		Meets Standard		For Reviewer Use Only
		Primary Citations	Supporting Citations	Y	N	Reviewer Notes
	inequality and interpret it in the context of the problem. <i>For example: As a salesperson, you are paid \$50 per week plus \$3 per sale. This week you want your pay to be at least \$100. Write an inequality for the number of sales you need to make, and describe the solutions.</i>	Fluency: SE: 205–206, 207–208, 209–210 TE: 205, 207 Application: SE: 207–208, 210 TE: 205, 207				
	GEOMETRY					
	Draw, construct, and describe geometrical figures and describe the relationships between them.					
7.G.1.	Solve problems involving scale drawings of geometric figures, including computing actual lengths and areas from a scale drawing and reproducing a scale drawing at a different scale.	Develop Conceptual Understanding: SE: 237–238 TE: 237, 239, 240 Fluency: SE: 239–240, 214–242 TE: 239	TE: 238, 241, 242			

Standard No.	Standard Language	Publisher Citations		Meets Standard		For Reviewer Use Only
		Primary Citations	Supporting Citations	Y	N	Reviewer Notes
		Application: SE: 237-238, 239-240 TE: 239				
7.G.2.	Draw (freehand, with ruler and protractor, and with technology) geometric shapes with given conditions. Focus on constructing triangles from three measures of angles or sides, noticing when the conditions determine a unique triangle, more than one triangle, or no triangle.	Develop Conceptual Understanding: SE: 243-244 TE: 243-244 Fluency: SE: 245-246 Application: SE: 243-244, 246	TE: 245, 246			
7.G.3.	Describe the two-dimensional figures that result from slicing three-dimensional figures, as in plane sections of right rectangular prisms and right rectangular pyramids.	Develop Conceptual Understanding: SE: 247-248 TE: 247-248 Fluency:	SE: 259, 260, 298, 304 TE: 249, 250			

Standard No.	Standard Language	Publisher Citations		Meets Standard		For Reviewer Use Only
		Primary Citations	Supporting Citations	Y	N	Reviewer Notes
		SE: 249–250 Application: SE: 249–250				
	Solve real-life and mathematical problems involving angle measure, area, surface area, and volume.					
7.G.4.	Know the formulas for the area and circumference of a circle and use them to solve problems; give an informal derivation of the relationship between the circumference and area of a circle.	Develop Conceptual Understanding : SE: 265–267 TE: 265–267 Fluency: SE: 268–270 TE: 268, 269, 270 Application: SE: 269–270	SE: 271–273, 274–276, 295, 296 TE: 271, 272, 273, 274, 275, 276, 296			
7.G.5.	Use facts about supplementary, complementary, vertical, and adjacent angles in a multi-step problem to write and solve simple equations for an	Develop Conceptual Understanding :	SE: 255, 259–260, 297–298			

Standard No.	Standard Language	Publisher Citations		Meets Standard		For Reviewer Use Only
		Primary Citations	Supporting Citations	Y	N	Reviewer Notes
	unknown angle in a figure.	SE: 251–254 TE: 251, 253, 254 Fluency: TE: 256–257, 260 Application: SE: 257–258 TE: 257	TE: 252, 255, 257, 258			
7.G.6.	Solve real-world and mathematical problems involving area, volume and surface area of two- and three-dimensional objects composed of triangles, quadrilaterals, polygons, cubes, and right prisms.	Develop Conceptual Understanding: SE: 277–279 TE: 277, 278, 279 Fluency: SE: 280–282 TE: 280, 281 Application: SE: 282 TE: 282	SE: 283–285, 286–288, 289–291, 292–294, 295, 296 TE: 283–285, 286–288, 289–291, 292–294, 296			

Standard No.	Standard Language	Publisher Citations		Meets Standard		For Reviewer Use Only
		Primary Citations	Supporting Citations	Y	N	Reviewer Notes
	STATISTICS AND PROBABILITY					
	Use random sampling to draw inferences about a population.					
7.SP.1.	Understand that statistics can be used to gain information about a population by examining a sample of the population; generalizations about a population from a sample are valid only if the sample is representative of that population. Understand that random sampling tends to produce representative samples and support valid inferences.	Develop Conceptual Understanding : SE: 311–313 TE: 311, 312, 313 Fluency: SE: 314–316 TE: 314, 315, 316 Application: SE: 316	SE: 317–319, 320–322 TE: 317–319, 320–322			
7.SP.2.	Use data from a random sample to draw inferences about a population with an unknown characteristic of interest. Generate multiple samples (or simulated samples) of the same size to gauge the variation in estimates or predictions. <i>For example, estimate the mean word length in a book by</i>	Develop Conceptual Understanding : SE: 317–319 TE: 317, 318, 319	SE: 323–325, 326–328 TE: 323–325, 326–328			

Standard No.	Standard Language	Publisher Citations		Meets Standard		For Reviewer Use Only
		Primary Citations	Supporting Citations	Y	N	Reviewer Notes
	<i>randomly sampling words from the book; predict the winner of a school election based on randomly sampled survey data. Gauge how far off the estimate or prediction might be.</i>	Fluency: SE: 320–322 TE: 320, 321 Application: SE: 321 TE: 322				
	Draw informal comparative inferences about two populations.					
7.SP.3.	Informally assess the degree of visual overlap of two numerical data distributions with similar variabilities, measuring the difference between the centers by expressing it as a multiple of a measure of variability. <i>For example, the mean height of players on the basketball team is 10 cm greater than the mean height of players on the soccer team, about twice the variability (mean absolute deviation) on either team; on a dot plot, the separation between the two distributions of heights is noticeable.</i>	Develop Conceptual Understanding : SE: 342–344, 347–350 TE: 341, 342, 343, 347, 348, 349 Fluency: SE: 344–346, 350–352 TE: 344, 345, 346, 350, 351,	SE: 336–337, 338–340, 353, 354 TE: 336–337, 338–340, 354			

Standard No.	Standard Language	Publisher Citations		Meets Standard		For Reviewer Use Only
		Primary Citations	Supporting Citations	Y	N	Reviewer Notes
		352 Application: SE: 345, 351 TE: 340				
7.SP.4.	Use measures of center and measures of variability for numerical data from random samples to draw informal comparative inferences about two populations. <i>For example, decide whether the words in a chapter of a seventh-grade science book are generally longer than the words in a chapter of a fourth-grade science book.</i>	Develop Conceptual Understanding: SE: 336–337, 347–350 TE: 335, 337, 347, 348, 349 Fluency: SE: 338–340, 350–352 TE: 338, 339, 350, 351, 352 Application: SE: 339, 351 TE: 340	SE: 341–344, 345–346, 353, 354 TE: 341–344, 345–346, 354			
	Investigate chance processes and					

Standard No.	Standard Language	Publisher Citations		Meets Standard		For Reviewer Use Only
		Primary Citations	Supporting Citations	Y	N	Reviewer Notes
	develop, use, and evaluate probability models.					
7.SP.5.	Understand that the probability of a chance event is a number between 0 and 1 that expresses the likelihood of the event occurring. Larger numbers indicate greater likelihood. A probability near 0 indicates an unlikely event, a probability around $\frac{1}{2}$ indicates an event that is neither unlikely nor likely, and a probability near 1 indicates a likely event.	Develop Conceptual Understanding : SE: 367–371 TE: 367, 368, 369, 370 Fluency: SE: 371–374 TE: 373, 374 Application: SE: 373	SE: 375– 378, 379– 380 TE: 375– 378, 379– 380			
7.SP.6.	Approximate the probability of a chance event by collecting data on the chance process that produces it and observing its long-run relative frequency, and predict the approximate relative frequency given the probability. <i>For example, when rolling a number cube 600 times, predict that a 3 or 6 would be rolled roughly 200 times, but probably not exactly 200 times.</i>	Develop Conceptual Understanding : SE: 375–378 TE: 375, 376, 377 Fluency:	SE: 387– 392, 393, 394, 401, 402, 411– 413, 414– 416 TE: 387, 388, 389,			

Standard No.	Standard Language	Publisher Citations		Meets Standard		For Reviewer Use Only
		Primary Citations	Supporting Citations	Y	N	Reviewer Notes
		SE: 378–380, TE: 378, 379, 380	390, 391, 392, 394, 401, 402, 411, 412, 413, 414, 415, 416			
7.SP.7a.	Develop a probability model and use it to find probabilities of events. Compare probabilities from a model to observed frequencies; if the agreement is not good, explain possible sources of the discrepancy. Develop a uniform probability model by assigning equal probability to all outcomes, and use the model to determine probabilities of events. <i>For example, if a student is selected at random from a class, find the probability that Jane will be selected and the probability that a girl will be selected.</i>	Develop Conceptual Understanding : SE: 399–401 TE: 399, 400, 401 Fluency: SE: 402–404 TE: 402, 403, 404 Application: SE: 403	SE: 413, 414–416 TE: 413, 414–416			
7.SP.7b.	Develop a probability model and use it to find probabilities of events. Compare probabilities from a model to observed frequencies; if the agreement is not good, explain possible sources of the discrepancy. Develop a probability	Develop Conceptual Understanding : SE: 375–377,	SE: 369–371, 372–374, 390–392, 393, 394			

Standard No.	Standard Language	Publisher Citations		Meets Standard		For Reviewer Use Only
		Primary Citations	Supporting Citations	Y	N	Reviewer Notes
	model (which may not be uniform) by observing frequencies in data generated from a chance process. <i>For example, find the approximate probability that a spinning penny will land heads up or that a tossed paper cup will land open-end down. Do the outcomes for the spinning penny appear to be equally likely based on the observed frequencies?</i>	387–389 TE: 375–377 Fluency: SE: 378–380 TE: 373, 374, 378–380 Application: SE: 373	TE: 387–389, 390–392, 394			
7.SP.8a.	Find probabilities of compound events using organized lists, tables, tree diagrams, and simulation. Understand that, just as with simple events, the probability of a compound event is the fraction of outcomes in the sample space for which the compound event occurs.	Develop Conceptual Understanding: SE: 381–383 TE: 381–383 Fluency: SE: 384–386 TE: 384–385 Application: SE: 385 TE: 386	SE: 393–394, 405–407, 408–410, 423–424 TE: 394, 405–407, 408–410			
7.SP.8b.	Find probabilities of compound events	Develop	SE: 405–			

Standard No.	Standard Language	Publisher Citations		Meets Standard		For Reviewer Use Only
		Primary Citations	Supporting Citations	Y	N	Reviewer Notes
	using organized lists, tables, tree diagrams, and simulation. Represent sample spaces for compound events using methods such as organized lists, tables and tree diagrams. For an event described in everyday language (e.g., “rolling double sixes”), identify the outcomes in the sample space which compose the event.	Conceptual Understanding : SE: 381–383 TE: 381–383 Fluency: SE: 384–386, 393 TE: 384–386	407, 408–410 TE: 405–407, 408–410			
7.SP.8c.	Find probabilities of compound events using organized lists, tables, tree diagrams, and simulation. Design and use a simulation to generate frequencies for compound events. <i>For example, use random digits as a simulation tool to approximate the answer to the question: If 40% of donors have type A blood, what is the probability that it will take at least 4 donors to find one with type A blood?</i>	Develop Conceptual Understanding : SE: 417–419 TE: 417–419 Fluency: SE: 420–422 TE: 420–422 Application: SE: 422	SE: 381–383, 384–386 TE: 381–383, 384–386			
	MATHEMATICAL PRACTICES					
MP.1.	Make sense of problems and persevere in	<i>Mathematical practices are</i>	--			

Standard No.	Standard Language	Publisher Citations		Meets Standard		For Reviewer Use Only
		Primary Citations	Supporting Citations	Y	N	Reviewer Notes
	solving them.	<i>integrated throughout the program. Some examples are:</i> SE: 12, 21, 23, 24, 26, 28, 29, 30, 39, 40, 43, 45, 47, 48, 52, 53, 54, 64, 65, 66, 73, 74, 81, 87, 88, 92, 93, 94, 96, 99, 100, 120, 121, 122, 127, 128, 133, 134, 144, 145, 146, 150, 151, 152, 155, 157, 158, 176, 177, 178, 183, 184, 188, 189, 196,				

Publisher : Houghton Mifflin Harcourt
 Program Title: Houghton Mifflin Harcourt California GO Math! © 2015
 Components: Grade 7 Student Edition and Teacher Edition

Standard No.	Standard Language	Publisher Citations		Meets Standard		For Reviewer Use Only
		Primary Citations	Supporting Citations	Y	N	Reviewer Notes
		207, 208, 210, 214, 222, 241, 242, 256, 257, 258, 268, 269, 270, 280, 281, 282, 286, 292, 293, 294, 314, 315, 316, 320, 321, 322, 324, 338, 345, 346, 351, 352, 372, 373, 374, 379, 380, 384, 385, 386, 389, 390, 391, 392, 402, 408, 409, 410, 414 TE: 12, 20,				

Standard No.	Standard Language	Publisher Citations		Meets Standard		For Reviewer Use Only
		Primary Citations	Supporting Citations	Y	N	Reviewer Notes
		21, 22, 26, 27, 28, 40, 44, 50, 51, 52, 62, 63, 64, 66, 68, 70, 72, 80, 86, 91, 92, 96, 98, 118, 120, 126, 132, 134, 144, 146, 150, 155, 158, 175, 178, 186, 194, 196, 207, 210, 213, 222, 240, 242, 255, 268, 270, 282, 286, 292, 313, 316, 320, 322, 323, 338, 346, 352, 371, 374, 380, 383, 384, 386,				

Publisher : Houghton Mifflin Harcourt
 Program Title: Houghton Mifflin Harcourt California GO Math! © 2015
 Components: Grade 7 Student Edition and Teacher Edition

Standard No.	Standard Language	Publisher Citations		Meets Standard		For Reviewer Use Only
		Primary Citations	Supporting Citations	Y	N	Reviewer Notes
		389, 390, 392, 399, 400, 401, 402, 407, 408, 410, 414				
MP 2.	Reason abstractly and quantitatively.	<i>Mathematical practices are integrated throughout the program. Some examples are:</i> SE: 11, 17, 18, 19, 20, 21, 23, 24, 37, 38, 42, 47, 48, 49, 50, 51, 66, 67, 68, 70, 71, 73, 75, 76, 80, 81, 82, 83, 84, 85, 87, 88, 94, 100, 122, 133, 143, 145,	--			

Publisher : Houghton Mifflin Harcourt
 Program Title: Houghton Mifflin Harcourt California GO Math! © 2015
 Components: Grade 7 Student Edition and Teacher Edition

Standard No.	Standard Language	Publisher Citations		Meets Standard		For Reviewer Use Only
		Primary Citations	Supporting Citations	Y	N	Reviewer Notes
		146, 149, 151, 152, 154, 158, 177, 178, 182, 184, 185, 188, 196, 203, 207, 209, 211, 212, 216, 218, 220, 221, 222, 241, 242, 254, 267, 269, 273, 282, 283, 288, 321, 322, 328, 340, 343, 345, 346, 347, 348, 351, 352, 367, 370, 377, 379, 380, 381, 384, 385, 386, 391, 392, 401, 404,				

Publisher : Houghton Mifflin Harcourt
 Program Title: Houghton Mifflin Harcourt California GO Math! © 2015
 Components: Grade 7 Student Edition and Teacher Edition

Standard No.	Standard Language	Publisher Citations		Meets Standard		For Reviewer Use Only
		Primary Citations	Supporting Citations	Y	N	Reviewer Notes
		406, 409, 415, 416, 421 TE: 10, 18, 19, 20, 21, 22, 24, 37, 38, 42, 47, 49, 50, 51, 52, 66, 67, 68, 69, 70, 71, 72, 74, 75, 76, 80, 82, 83, 84, 85, 86, 88, 122, 124, 132, 134, 142, 143, 146, 149, 150, 152, 158, 178, 181, 182, 184, 185, 186, 188, 196, 203, 204, 207, 210, 211,				

Publisher : Houghton Mifflin Harcourt
 Program Title: Houghton Mifflin Harcourt California GO Math! © 2015
 Components: Grade 7 Student Edition and Teacher Edition

Standard No.	Standard Language	Publisher Citations		Meets Standard		For Reviewer Use Only
		Primary Citations	Supporting Citations	Y	N	Reviewer Notes
		212, 216, 218, 220, 222, 242, 253, 254, 268, 270, 273, 274, 282, 283, 288, 322, 328, 340, 343, 344, 346, 348, 352, 367, 368, 369, 370, 376, 377, 380, 381, 382, 384, 386, 392, 401, 402, 404, 406, 410, 416, 422				
MP 3.	Construct viable arguments and critique the reasoning of others.	<i>Mathematical practices are integrated throughout the program. Some</i>	--			

Publisher : Houghton Mifflin Harcourt
 Program Title: Houghton Mifflin Harcourt California GO Math! © 2015
 Components: Grade 7 Student Edition and Teacher Edition

Standard No.	Standard Language	Publisher Citations		Meets Standard		For Reviewer Use Only
		Primary Citations	Supporting Citations	Y	N	Reviewer Notes
		<i>examples are:</i> SE: 9, 12, 15, 16, 18, 21, 22, 24, 26, 28, 29, 30, 40, 42, 46, 48, 52, 54, 61, 66, 72, 73, 74, 79, 82, 84, 86, 87, 92, 94, 98, 99, 100, 120, 122, 127, 128, 133, 134, 144, 146, 156, 158, 176, 177, 178, 182, 184, 185, 186, 189, 196, 210, 216, 220, 222, 245, 246, 255, 256, 257, 258, 270, 275,				

Publisher : Houghton Mifflin Harcourt
 Program Title: Houghton Mifflin Harcourt California GO Math! © 2015
 Components: Grade 7 Student Edition and Teacher Edition

Standard No.	Standard Language	Publisher Citations		Meets Standard		For Reviewer Use Only
		Primary Citations	Supporting Citations	Y	N	Reviewer Notes
		276, 277, 281, 286, 287, 291, 293, 294, 311, 316, 319, 320, 321, 322, 324, 326, 327, 328, 340, 345, 346, 350, 351, 352, 371, 372, 374, 377, 378, 379, 380, 385, 386, 390, 391, 392, 403, 404, 407, 409, 410, 413, 415, 416, 422 TE: 9, 12, 15, 16, 18, 21, 22, 24,				

Publisher : Houghton Mifflin Harcourt
 Program Title: Houghton Mifflin Harcourt California GO Math! © 2015
 Components: Grade 7 Student Edition and Teacher Edition

Standard No.	Standard Language	Publisher Citations		Meets Standard		For Reviewer Use Only
		Primary Citations	Supporting Citations	Y	N	Reviewer Notes
		26, 28, 30, 40, 42, 46, 48, 52, 54, 61, 62, 66, 72, 74, 79, 82, 84, 92, 94, 98, 100, 120, 122, 128, 134, 144, 146, 156, 158, 176, 178, 182, 184, 185, 186, 190, 196, 210, 216, 220, 222, 245, 246, 255, 258, 270, 276, 277, 278, 282, 286, 288, 291, 294, 311, 312, 316, 320, 322, 324, 326, 328, 340,				

Standard No.	Standard Language	Publisher Citations		Meets Standard		For Reviewer Use Only
		Primary Citations	Supporting Citations	Y	N	Reviewer Notes
		346, 350, 352, 371, 374, 377, 378, 380, 386, 390, 392, 404, 407, 410, 413, 416, 422				
MP 4.	Model with mathematics.	<i>Mathematical practices are integrated throughout the program. Some examples are:</i> SE: 8, 10, 11, 12, 13, 16, 17, 18, 19, 20, 22, 23, 25, 30, 37, 38, 41, 43, 45, 47, 48, 50, 51, 54, 63, 65, 66, 67, 68, 69, 72, 73,	--			

Publisher : Houghton Mifflin Harcourt
 Program Title: Houghton Mifflin Harcourt California GO Math! © 2015
 Components: Grade 7 Student Edition and Teacher Edition

Standard No.	Standard Language	Publisher Citations		Meets Standard		For Reviewer Use Only
		Primary Citations	Supporting Citations	Y	N	Reviewer Notes
		75, 76, 77, 78, 79, 81, 82, 84, 87, 88, 89, 91, 93, 94, 95, 99, 117, 118, 121, 122, 125, 127, 128, 129, 130, 131, 133, 145, 146, 147, 148, 150, 151, 152, 157, 158, 173, 174, 175, 177, 180, 183, 184, 185, 189, 190, 191, 193, 195, 205, 206, 209, 210, 215, 218, 221, 238, 239, 241, 242, 245,				

Publisher : Houghton Mifflin Harcourt
 Program Title: Houghton Mifflin Harcourt California GO Math! © 2015
 Components: Grade 7 Student Edition and Teacher Edition

Standard No.	Standard Language	Publisher Citations		Meets Standard		For Reviewer Use Only
		Primary Citations	Supporting Citations	Y	N	Reviewer Notes
		247, 250, 269, 270, 275, 276, 280, 281, 284, 287, 288, 292, 317, 318, 321, 322, 327, 328, 335, 337, 339, 341, 342, 345, 347, 349, 351, 352, 370, 379, 380, 385, 386, 391, 392, 399, 403, 405, 407, 409, 410, 413, 415, 417, 421, 422 TE: 10, 12, 13, 16, 18, 19, 20, 21,				

Publisher : Houghton Mifflin Harcourt
 Program Title: Houghton Mifflin Harcourt California GO Math! © 2015
 Components: Grade 7 Student Edition and Teacher Edition

Standard No.	Standard Language	Publisher Citations		Meets Standard		For Reviewer Use Only
		Primary Citations	Supporting Citations	Y	N	Reviewer Notes
		22, 24, 26, 30, 37, 38, 40, 43, 44, 45, 48, 50, 51, 52, 54, 63, 66, 67, 68, 70, 72, 74, 75, 76, 77, 78, 79, 80, 82, 83, 84, 88, 89, 91, 92, 94, 95, 96, 100, 117, 118, 122, 125, 126, 128, 129, 130, 131, 134, 146, 147, 148, 150, 152, 156, 158, 173, 174, 175, 176, 182, 184, 185, 190, 191, 192, 193, 205, 206,				

Standard No.	Standard Language	Publisher Citations		Meets Standard		For Reviewer Use Only
		Primary Citations	Supporting Citations	Y	N	Reviewer Notes
		210, 216, 218, 222, 238, 239, 240, 242, 246, 248, 250, 270, 276, 280, 282, 284, 288, 292, 317, 318, 322, 326, 328, 335, 337, 340, 341, 342, 347, 349, 350, 352, 370, 380, 386, 392, 399, 404, 405, 407, 410, 412, 413, 416, 417, 422				
MP 5.	Use appropriate tools strategically.	<i>Mathematical practices are integrated throughout</i>	--			

Publisher : Houghton Mifflin Harcourt
 Program Title: Houghton Mifflin Harcourt California GO Math! © 2015
 Components: Grade 7 Student Edition and Teacher Edition

Standard No.	Standard Language	Publisher Citations		Meets Standard		For Reviewer Use Only
		Primary Citations	Supporting Citations	Y	N	Reviewer Notes
		<i>the program.</i> <i>Some examples are:</i> SE: 7, 8, 13, 14, 15, 17, 19, 25, 27, 30, 38, 41, 43, 53, 61, 68, 70, 84, 87, 88, 97, 99, 100, 121, 122, 145, 146, 147, 148, 149, 174, 177, 183, 184, 191, 192, 195, 201, 211, 217, 221, 237, 238, 239, 241, 242, 243, 244, 245, 246, 247, 249, 251, 257, 277, 283, 311,				

Publisher : Houghton Mifflin Harcourt
 Program Title: Houghton Mifflin Harcourt California GO Math! © 2015
 Components: Grade 7 Student Edition and Teacher Edition

Standard No.	Standard Language	Publisher Citations		Meets Standard		For Reviewer Use Only
		Primary Citations	Supporting Citations	Y	N	Reviewer Notes
		317, 323, 324, 325, 326, 339, 379, 383, 401, 405, 417, 422 TE: 7, 8, 13, 14, 15, 16, 18, 19, 22, 26, 28, 38, 40, 42, 43, 54, 61, 67, 68, 70, 84, 88, 96, 97, 100, 122, 146, 147, 148, 149, 150, 174, 176, 182, 184, 191, 192, 196, 201, 211, 214, 217, 218, 237, 238, 239, 240, 242,				

Standard No.	Standard Language	Publisher Citations		Meets Standard		For Reviewer Use Only
		Primary Citations	Supporting Citations	Y	N	Reviewer Notes
		244, 248, 250, 251, 267, 274, 278, 283, 284, 286, 311, 317, 318, 324, 326, 340, 346, 380, 383, 384, 402, 406, 418, 422				
MP 6.	Attend to precision.	<i>Mathematical practices are integrated throughout the program. Some examples are:</i> SE: 7, 8, 9, 10, 12, 15, 18, 20, 21, 27, 28, 30, 35, 39, 41, 42, 44, 47, 48, 49, 50, 51, 53, 59,	--			

Publisher : Houghton Mifflin Harcourt
 Program Title: Houghton Mifflin Harcourt California GO Math! © 2015
 Components: Grade 7 Student Edition and Teacher Edition

Standard No.	Standard Language	Publisher Citations		Meets Standard		For Reviewer Use Only
		Primary Citations	Supporting Citations	Y	N	Reviewer Notes
		61, 62, 63, 65, 66, 73, 74, 78, 82, 83, 84, 85, 86, 87, 89, 94, 99, 100, 115, 118, 128, 131, 132, 134, 143, 149, 151, 152, 158, 171, 174, 175, 178, 182, 184, 189, 190, 195, 196, 203, 208, 210, 215, 216, 221, 222, 235, 247, 248, 249, 250, 263, 265, 266, 267, 269, 270, 272, 273, 278, 284, 309,				

Publisher : Houghton Mifflin Harcourt
 Program Title: Houghton Mifflin Harcourt California GO Math! © 2015
 Components: Grade 7 Student Edition and Teacher Edition

Standard No.	Standard Language	Publisher Citations		Meets Standard		For Reviewer Use Only
		Primary Citations	Supporting Citations	Y	N	Reviewer Notes
		311, 312, 313, 316, 322, 327, 328, 337, 340, 345, 346, 351, 352, 368, 372, 373, 374, 376, 380, 392, 404, 422 TE: 7, 8, 9, 10, 12, 15, 16, 18, 20, 21, 22, 27, 28, 30, 35, 39, 40, 42, 44, 48, 49, 50, 52, 54, 59, 61, 62, 63, 64, 66, 74, 78, 82, 83, 84, 85, 86, 88, 94, 100, 115, 118, 128,				

Publisher : Houghton Mifflin Harcourt
 Program Title: Houghton Mifflin Harcourt California GO Math! © 2015
 Components: Grade 7 Student Edition and Teacher Edition

Standard No.	Standard Language	Publisher Citations		Meets Standard		For Reviewer Use Only
		Primary Citations	Supporting Citations	Y	N	Reviewer Notes
		131, 132, 134, 143, 144, 149, 150, 152, 158, 171, 174, 175, 176, 178, 182, 184, 190, 196, 203, 204, 210, 216, 222, 235, 247, 248, 250, 263, 265, 266, 267, 270, 272, 273, 274, 278, 284, 309, 311, 312, 313, 316, 322, 328, 337, 338, 340, 352, 368, 374, 376, 380, 392, 404, 422				

Standard No.	Standard Language	Publisher Citations		Meets Standard		For Reviewer Use Only
		Primary Citations	Supporting Citations	Y	N	Reviewer Notes
MP 7.	Look for and make use of structure.	<i>Mathematical practices are integrated throughout the program. Some examples are:</i> SE: 11, 12, 17, 18, 24, 27, 29, 30, 39, 41, 43, 44, 47, 49, 53, 54, 62, 65, 66, 71, 74, 76, 82, 85, 88, 91, 94, 97, 100, 119, 121, 122, 125, 127, 128, 134, 143, 146, 151, 152, 157, 158, 173, 174, 175, 177, 178, 179, 180,	--			

Publisher : Houghton Mifflin Harcourt
 Program Title: Houghton Mifflin Harcourt California GO Math! © 2015
 Components: Grade 7 Student Edition and Teacher Edition

Standard No.	Standard Language	Publisher Citations		Meets Standard		For Reviewer Use Only
		Primary Citations	Supporting Citations	Y	N	Reviewer Notes
		184, 190, 196, 210, 216, 221, 222, 241, 246, 247, 248, 249, 250, 267, 271, 275, 276, 277, 278, 281, 282, 283, 287, 288, 289, 290, 294, 318, 322, 335, 336, 337, 341, 344, 345, 346, 349, 351, 376, 382, 383, 387, 392, 400, 410, 421, 422 TE: 12, 18, 24, 27, 28,				

Publisher : Houghton Mifflin Harcourt
 Program Title: Houghton Mifflin Harcourt California GO Math! © 2015
 Components: Grade 7 Student Edition and Teacher Edition

Standard No.	Standard Language	Publisher Citations		Meets Standard		For Reviewer Use Only
		Primary Citations	Supporting Citations	Y	N	Reviewer Notes
		30, 39, 42, 43, 44, 46, 48, 49, 50, 54, 62, 66, 71, 74, 76, 82, 85, 88, 91, 94, 97, 100, 119, 122, 125, 126, 128, 134, 143, 146, 152, 158, 173, 174, 175, 178, 179, 180, 184, 190, 196, 210, 216, 222, 242, 246, 247, 248, 250, 267, 268, 271, 272, 276, 277, 278, 282, 283, 284, 288, 289, 290, 294,				

Standard No.	Standard Language	Publisher Citations		Meets Standard		For Reviewer Use Only
		Primary Citations	Supporting Citations	Y	N	Reviewer Notes
		318, 322, 335, 336, 337, 341, 344, 346, 349, 352, 376, 382, 383, 387, 392, 400, 410, 422				
MP 8.	Look for and express regularity in repeated reasoning.	<i>Mathematical practices are integrated throughout the program. Some examples are:</i> SE: 9, 12, 23, 24, 25, 41, 42, 47, 48, 51, 53, 61, 62, 64, 65, 66, 71, 94, 100, 117, 121, 122, 123, 124, 125, 127, 128,	--			

Publisher : Houghton Mifflin Harcourt
 Program Title: Houghton Mifflin Harcourt California GO Math! © 2015
 Components: Grade 7 Student Edition and Teacher Edition

Standard No.	Standard Language	Publisher Citations		Meets Standard		For Reviewer Use Only
		Primary Citations	Supporting Citations	Y	N	Reviewer Notes
		129, 130, 131, 132, 133, 134, 152, 158, 177, 179, 180, 181, 184, 187, 190, 192, 195, 196, 203, 204, 205, 210, 213, 218, 237, 241, 254, 255, 257, 258, 265, 272, 277, 278, 279, 280, 283, 284, 285, 287, 288, 289, 290, 291, 292, 293, 294, 319, 339, 340, 342, 343, 345, 346, 347, 348,				

Publisher : Houghton Mifflin Harcourt
 Program Title: Houghton Mifflin Harcourt California GO Math! © 2015
 Components: Grade 7 Student Edition and Teacher Edition

Standard No.	Standard Language	Publisher Citations		Meets Standard		For Reviewer Use Only
		Primary Citations	Supporting Citations	Y	N	Reviewer Notes
		374, 385, 386, 387, 388, 403, 404, 407, 415, 416 TE: 9, 12, 24, 25, 42, 48, 51, 54, 61, 62, 64, 66, 71, 94, 100, 117, 122, 123, 124, 125, 128, 129, 130, 131, 132, 134, 152, 158, 178, 179, 180, 181, 184, 187, 192, 196, 203, 204, 205, 210, 213, 218, 237, 242, 254, 255,				

Publisher : Houghton Mifflin Harcourt
 Program Title: Houghton Mifflin Harcourt California GO Math! © 2015
 Components: Grade 7 Student Edition and Teacher Edition

Standard No.	Standard Language	Publisher Citations		Meets Standard		For Reviewer Use Only
		Primary Citations	Supporting Citations	Y	N	Reviewer Notes
		265, 272, 277, 278, 279, 280, 283, 284, 285, 288, 289, 290, 291, 292, 294, 319, 340, 342, 343, 347, 348, 374, 386, 387, 388, 404, 407, 416				
Appendix						

California Department of Education
 Posted February 2013