Mid-Module Standards A	Topics A–B				
Geometric me addition.	easui	rement: understand concepts of area and relate area to multiplication	n and to		
3.MD.5	Re me	of area			
	a.	A square with side length 1 unit, called "a unit square," is said to have unit" of area, and can be used to measure area.	e "one square		
	b.	A plane figure which can be covered without gaps or overlaps by <i>n</i> un to have an area of <i>n</i> square units.	it squares is said		
3.MD.6	Measure areas by counting unit squares (square cm, square m, square in, square ft, and improvised units).				
3.MD.7	Relate area to the operations of multiplication and addition.				
	a.	Find the area of a rectangle with whole-number side lengths by tiling that the area is the same as would be found by multiplying the side le			
	b.	Multiply side lengths to find areas of rectangles with whole-number s the context of solving real world and mathematical problems, and rep number products as rectangular areas in mathematical reasoning.	-		
	d.	Recognize area as additive. Find areas of rectilinear figures by decom into non-overlapping rectangles and adding the areas of the non-over applying this technique to solve real world problems.			

Evaluating Student Learning Outcomes

A Progression Toward Mastery is provided to describe steps that illuminate the gradually increasing understandings that students develop on their way to proficiency. In this chart, this progress is presented from left (Step 1) to right (Step 4). The learning goal for students is to achieve Step 4 mastery. These steps are meant to help teachers and students identify and celebrate what the students CAN do now and what they need to work on next.



A Progression Toward Mastery							
Assessment Task Item and Standards Assessed	STEP 1 Little evidence of reasoning without a correct answer. (1 Point)	STEP 2 Evidence of some reasoning without a correct answer. (2 Points)	STEP 3 Evidence of some reasoning with a correct answer or evidence of solid reasoning with an incorrect answer. (3 Points)	STEP 4 Evidence of solid reasoning with a correct answer. (4 Points)			
1 3.MD.5 3.MD.6	Response demonstrates little evidence of reasoning without a correct answer.	Response shows limited reasoning with at least one correct answer.	Response includes evidence of some reasoning with three correct answers or evidence of solid reasoning with an incorrect answer.	 Student correctly answers: a. Jasmine's array, giving strong evidence of understanding that tiling must have no gaps or overlaps. b. The area is 24 square units. Student provides an appropriate explanation of the calculation (e.g., counting or skip- counting strategies). c. Yes, there are 4 rows of 6 squares, so it is possible to skip- count by six. 			
2 3.MD.7b	Response demonstrates little evidence of reasoning without a correct answer.	Response shows limited reasoning with at least one correct answer.	Student identifies at least two of three rectangles correctly. Response includes evidence of accurate reasoning with pictures, numbers, or words.	Student correctly identifies three rectangles: 1 × 12 or 12 × 1 2 × 6 or 6 × 2 3 × 4 or 4 × 3 Response shows evidence of solid reasoning using pictures, numbers, and words.			



A Progression Toward Mastery							
3 3.MD.7b	Response demonstrates little evidence of reasoning without a correct answer.	Response shows limited reasoning without a correct answer.	Student finds the unknown side length of 8 units but may not show enough work to clearly justify the answer.	Student correctly finds the unknown side length of 8 units. Response shows evidence of solid reasoning using pictures, equations, and words.			
4 3.MD.5 3.MD.6 3.MD.7a	Response demonstrates little evidence of reasoning without a correct answer.	Response shows evidence of some reasoning in an attempt to write a skip-counting sequence, an equation and complete the array, but work may not include a correct answer.	Student accurately completes the array and finds the area of 48 sq units but may not accurately provide both a skip-count sequence and a multiplication equation.	 Student correctly: a. Completes the array with 8 columns and 6 rows. b. Writes one of the following skip-count sequences: 6, 12, 18, 24, 30, 36, 42, 48 OR 8, 16, 24, 32, 40, 48. c. Writes a multiplication equation (6 × 8 = 48 or 8 × 6 = 48), and gives an area of 48 sq units. 			
5 3.MD.5a 3.MD.5b 3.MD.7a 3.MD.7d	Response demonstrates little evidence of reasoning without a correct answer to either part.	Response shows limited reasoning with a correct answer in one part.	Student slightly miscalculates the number of tiles needed to fill the remaining area, but the explanation shows evidence of solid reasoning. Part (b) is correct based on the student's slight miscalculation but not the correct answer of 32 square units.	 Student correctly: a. Identifies that 16 square units are needed to fill the remaining area. b. Says the area of the large rectangle is 32 square units. Explanation gives evidence of solid reasoning to support answer. 			

