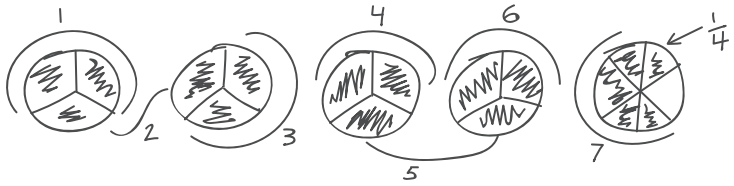
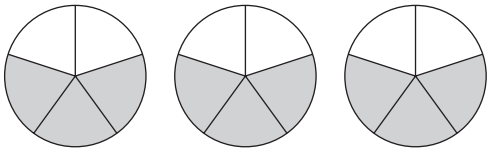
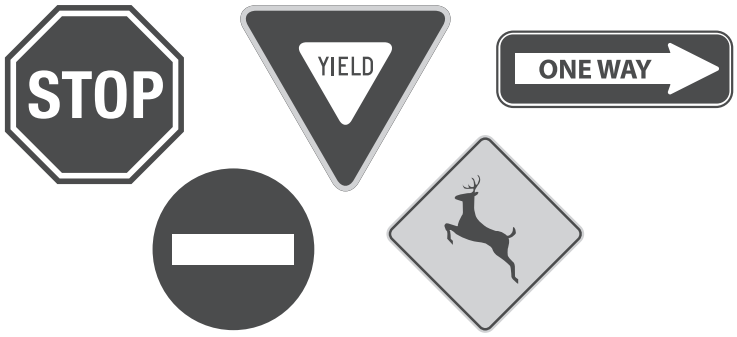
Benchmark Samples of Implementation

Sample Student Work	Justification
Level 4: Revised Leftover Pizza Task (Grade 6) Douglas ordered 5 small pizzas during the great pizza sale. He ate ⅙ of one pizza and wants to freeze the remaining 4⅚ pizzas. Douglas decides to freeze the remaining pizza in serving-size bags. A serving of pizza is ⅔ of a pizza. How many servings can he make if he uses up all the pizza? Explain your reasoning.  I know that there are 7 full servings of pizza in 4⅚ pizzas. There is ⅙ of a pizza that doesn't fit in a full serving. Because it takes ⅔ of a pizza to make a serving, then the ⅙ of a pizza is ¼ of a serving. Douglas can make 7¼ servings from the leftover pizza.	
Level 3: Fraction Operation Model Task (Grade 4) Write a number sentence that can be represented by this model.  $3 \times \frac{3}{5} = 1\frac{4}{5}$	
Level 2: Simplifying Expressions Task (Algebra) Simplify the following expressions. Remember to combine like terms if possible. 1. $-8x^2 - 5 + 2x^2 + 12 - 6x^2$ $-12x^2 + 7$ 2. $2abc - 9a^2bc - 8abc - 12ab - 16$ $-6abc - 9a^2bc - 12ab - 16$ 3. $-6(2x + 3) + 2(-7 + 3x)$ $-12x - 18 - 14 + 6x$ $= -6x - 32$	

Sample Student Work	Justification
Level 1: Road Sign Polygons Task (Grade 4) Use the road signs shown to answer the following questions.  1. Which sign is not a polygon? Do Not Enter 2. Which signs are regular polygons? Stop, yield, & deer crossing 3. What shape is the STOP sign? Octagon 4. What shape is the YIELD sign? Triangle 5. What shape is the DEER CROSSING sign? Square	

Source: Questions adapted from Nolan, Dixon, Roy, & Andreasen, 2016, p. 38.