Together We Can

| Unit Learning Target (Standard/Performance Expectation(s)) <br> 4.2.F Write a fraction equivalent to a given fraction (including mixed numbers). |  |  |
| :---: | :---: | :---: |
| Building Block or Lesson Learning Target: <br> RNP lesson 17: develop the concept of improper fractions and mixed numbers and name them. | Student Success Criteria: I can write a mixed number and an improper fraction from a picture representation. I can make a picture representation for any mixed number or improper fraction. |  |
| Previous Lesson Learning Target: <br> Reconstruct the unit when given the fractional part. |  |  |
| Target Introduction/ Thinking Question * <br> Last night Margo ate $3 / 4$ of a large pepperoni pizza. (Show that with circles) In the morning she ate some leftover cheese pizza that equaled $2 / 4$ of a pizza. Ask students to show the extra 2/4 of a pizza to show the total pizza eaten. |  |  |
| Lesson Progression (Flow) with Talk-Structures <br> - Warm-up: Imagine a tower made of 1-inch cubes. You can't see my tower but I will tell you that 12 cubes would be $2 / 3$ the height of my tower. How many cubes in my tower? <br> - Building wholes: ask students to use their fraction circles with the black circles as the unit to show $2 / 2,4 / 4,5 / 5$, and 12/12. <br> - The Thinking Question (showing pictures), individually <br> - Whole class discussion of two names for their pictures. (Transparency 1) <br> - Individual or partner work for student page A, B and C. | Anticipated Misconceptions: <br> - May not understand the thinking question has another pizza. <br> - Large number as the numerator <br> - Mixed number and improper fraction <br> - Numerator, denominator | Formative Task or Question* Designed to elicit student misconception(s) Ask student to use their fraction circles to build $\frac{8}{6}, \frac{3}{4}, \frac{3}{2}, 1 \frac{1}{3}, 1 \frac{2}{4}, \frac{2}{3}$. Name two ways to say each amount. (Teacher circulates looking for misconceptions.) |
| Lesson Closure <br> Students share their pictures for the problems from student Page 3. Student should explain how each problem. Ask students to name the fractional answer in two ways. | e picture was used to solve | Exit Task* <br> Name the amount in another way: $\frac{7}{5}, \frac{13}{6}$, $\frac{11}{2}, 13 / 4$. |

## Math \& Science Collaborative Lesson Plan

| Do the Math for the Thinking Question <br> Transparency 1: 1) $2 \frac{1}{4}$; 9/4, 2) $22 / 3 ; 8 / 3,3$ ) $3 \frac{1}{2} ; 7 / 2$, 4) same as \#3, 5) $36 / 8$ (or $33 / 4$ ) ; 30/8 (or $15 / 4$ ), <br> $\frac{3}{4}+\frac{2}{4}=\frac{5}{4}$ or $1 \frac{1}{4}$ <br> 6) $22 / 4$ or $2 \frac{1}{2} ; 10 / 4$ or $5 / 2,7$ ) $12 / 4$ or $1 \frac{1}{2} ; 6 / 4$ or $3 / 2^{\prime} 8$ ) <br> 8) $23 / 8 ; 19 / 8$ | Anticipated Misconceptions: <br> - May not understand the thinking question has another pizza. <br> - Large number as the numerator <br> - Mixed number and improper fraction <br> - Numerator, denominator |
| :---: | :---: |

Instructional Adjustment (if needed)
Tied to common misconception(s)
Use paper strip or chips as another conceptual way to see.

* Opportunity for formative assessment

