Math & Science Collaborative Lesson Plan

Lesson Title: Developing the Concept of Mixed Number and Improper Fractions



 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? 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. The Thinking Question (showing pictures), individually Whole class discussion of two names for their pictures. (Transparency 1) Individual or partner work for student page A, B and C. Key Terms In Mixed n Mixed n Imprope Greater than(<) 		ted Misconceptions: y not understand the aking question has ther pizza. See number as the herator ed number and roper fraction merator, denominator ms In Lesson: ed numbers atter than (>) and less (x, y) and $(x, $					
				Lesson Closure Students share their pictures for the problems from student Page 3. Student should explain how the picture was used to solve each problem. Ask students to name the fractional answer in two ways.			Exit Task* Name the amount in another way: $\frac{7}{5}$, $\frac{13}{6}$, $\frac{11}{2}$, 1 $\frac{3}{4}$.

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Do the Math for the Thinking Question





$$\frac{3}{4} + \frac{2}{4} = \frac{5}{4}$$
 or $1\frac{1}{4}$

Transparency 1: 1) 2 $\frac{1}{2}$; 9/4, 2) 2 2/3; 8/3, 3) 3 $\frac{1}{2}$; 7/2, 4) same as #3, 5) 3 6/8 (or 3 $\frac{3}{2}$); 30/8 (or 15/4) , 6) 2 2/4 or 2 $\frac{1}{2}$; 10/4 or 5/2, 7) 1 2/4 or 1 $\frac{1}{2}$; 6/4 or 3/2' 8) 2 3/8; 19/8

Anticipated Misconceptions:

- May not understand the thinking question has another pizza.
- Large number as the numerator
- Mixed number and improper fraction
- 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