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| 1. TEKS (111.22 Mathematics 6th Grade - 3B1A)  Number, operation, and quantitative reasoning. The students add, subtracts, multiplies, and divides to solve problems and justify solutions. The student is expected to model addition and subtraction in situations involving fractions with objects, pictures, words and numbers.  Objective We will be able to add and subtract fractions with pictures and numbers. | 2. Big Understandings  Fractions are used every day in life in many different areas and you will need to know how to add and subtract fractions in many of your daily activities. |
| 3. Assessment Evidence  - Students in a group are able to add and subtract shapes to determine the new size  - Students in a group are able to take two like/unlike fractions and add/subtract them  - Students individually will be able to solve basic adding/subtracting like and unlike factions  - Students individually will answer a 10 question work sheet on adding and subtracting like/unlike fractions | |
| 4. Opening Hook  How many of you think you will use fractions everyday in your life? Well I’m willing to bet you use fractions more than you think. Think about this and we will answer the problem during class…soon you will start driving and your car gets 25 MPG, and you have a 20 gallon tank, you are out in west TX, and for those who have been there know it is like driving on the moon. You see a sign that says “last gas station for 250 miles”, you have a half of tank of gas, do you need to stop now or do you have enough gas to make it to the next station? That’s a problem involving fractions. | |
| 5. Instructional Strategies/Student Activities  Input:  - Students stay in groups, use PPT presentation and circular shapes which are cut into halves/thirds/fourths  - Teacher will use PPT to review parts of the fraction and the rules for adding and subtracting fractions  Modeling:  - Teacher will demonstrate in PPT as students use shapes to help students visualize fractions  Guided Practice:  - Review parts of a fraction (numerator and denominator) in PPT presentation  - Start with fourths and go over adding and subtracting - relate to quarters and dollars  - Review like and unlike fractions by using examples in PPT presentation  - Go over halves and thirds addition and subtraction like fractions and unlike fractions in PPT  CFU:  - Observe students actions with shapes and see if students are participating in guided discussion  Independent Practice:  - Give practice problems and see if students get right answer, show answers/work in step by step PPT  - Provided student with a 10 question worksheet they copy from PPT to see if they comprehend adding/subtracting like and unlike fractions | |
| 6. Materials/Resources  Laptop with screen projector, wipe board, and paper with circles divided into halves, thirds and fourths. | |
| 7. Grouping Patterns  Will provide large group instruction to students who will be working in small groups | |
| 8. Ending, Summary/Reflection  Summarize how we added/subtracted like and unlike fractions. Asked the students if they would have gotten gas or continued on to the next gas station, A half tank of gas would go 250 miles the same as the distance to the next station so you challenge them to make an judgment decision not just a pure math solution. | |