Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Class: \_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Learning Target 1:** I can add and subtract fractions.

**Objective:** I can determine a least common denominator of two or more fractions.

Notes

When do we need to find the least common denominator of fractions?

* When we are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ or \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ fractions with unlike denominators.

Here is how to find out:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **1/3** | + | **1/6** | = | ? |
| 1/3 |  | 1/6 |  | pie huh |

|  |  |  |  |
| --- | --- | --- | --- |
| **3** | List the multiples of 3: |  | 3, 6, 9, 12, 15, 18, 21, ... |
| **6** | List the multiples of 6: |  | 6, 12, 18, 24, ... |

Then find the **smallest number** that is the same

|  |  |  |  |
| --- | --- | --- | --- |
|  | multiples of 3: |  | 3, **6**, 9, 12, 15, 18, 21, ... |
|  | multiples of 6: |  | **6**, 12, 18, 24, ... |

The answer is 6, and that is the **Least** Common Denominator.

So let us try using it! We want both fractions to have 6 slices.

* When we multiply top and bottom of **1/3** by 2 we get **2/6**
* **1/6** already has a denominator of 6

And our question now looks like:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **2/6** | + | **1/6** | = | **3/6** |  |  |
| 2/6 |  | 1/6 |  | 3/6 |  |  |

Directions: Find the least common denominator (LCD) for each pair of fractions. Use the LCD to write two new equivalent fractions.

1. and 4. and

2. and 5. and

3. and 6. and

7. Tyrone divided a rectangle into thirds. Samantha divided a rectangle of the same size into fourths. How could you divide a rectangle of the same size so that you see both thirds and fourths?

Tyrone Samantha

Part B: How many twelfths are in each 1/3 section of Tyrone’s rectangle, and how many twelfths are in each ¼ section of Samantha’s rectangle?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_