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| ***Multiplication and Division of Fractions***  **Handout-KEY** | **Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**  **Date\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** |

**Objective: To practice multiplying and dividing fractions.**

**Segment 1**: Definition of a fraction.

Everyday objects are often divided into sections. A cake is good example because it has to be cut into pieces to be served to guests.

The simple definition of a fraction is that it represents part of a whole unit. There are two important terms to know when studying fractions: numerator and denominator. In fractions the top number is counting, i.e. numerating; so it is called the numerator; and the bottom number is identifying the type of piece that is being counted, i.e. denominating, so it is called the denominator.

Special property of 1

The number 1 can be written as a fraction where the numerator and denominator are the same.

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The **lowest common denominator (LCD)** is the smallest integer that you can use to make the denominators the same. It is the smallest number both denominators divide into evenly.

**Segment 2**: Multiply and divide fractions.

* The **product of two** **fractions** is the product of the numerators divided by the product of the denominators.
* To **divide two fractions**, invert the divisor and multiply.

Practice: Multiply or divide.

1. (b) (c)

Ans: Ans: Ans:

**Segment 3**: Multiply and divide mixed numerals.

**To multiply mixed numbers:**

-First change the mixed numbers to fractions

-Multiply the numerators to get the numerator of the answer. Multiply the denominators to get the denominator of the answer.

-Convert the answer back to mixed numeral

**To divide mixed numbers:**

-First change the mixed numbers to fractions

-Invert the divisor and multiply

-Convert the answer back to mixed number

Practice: Multiply and divide mixed numbers:

(a) (b)

Ans: Ans:

**SELF-REFLECTION ACTIVITY**

- Which segment of the multiplication and division of fractions was most challenging for you?

- What steps are you going to take to learn this subject?