Name: _____

Date: _____

Mathematics Note Taking

Topic: Inverse Operation- Multiplication to Division (Vice Versa)

In mathematics, the word **inverse** refers to the **opposite** of another operation (equation).

Inverse means there is an inverse (opposite) relationship between division and multiplication which is just like there was between addition and subtraction.

Multiplication and division are **inverse operations**.
This means that they are **opposites**.

All multiplication sentences can be written as division sentences and vice versa.

Every **multiplication sentence** can be written as **TWO** **division sentences**.

For example:

1. The **division** equation   **45 ÷ 5 = 9**   has the inverse relationships:

  5 x 9 = 45   or   **9 x 5 = 45**

2. Similar relationships exist for **multiplication**.
The equation **3 x 7 = 21**   has the inverse relationships

    21 ÷ 3 = 7   or   **21 ÷ 7 = 3**

By Mordell V. Farrington