**Notes:**

**Multiplying and dividing integers and fractions:**

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Date: \_\_\_\_\_\_\_\_\_\_\_

|  |  |
| --- | --- |
| **Multiplying Fractions:**  \* “Popcorn if needed” (Always keep the denominator the same)  \* cross cancel if possible  Top\*Top /Bottom\*Bottom  \* Simplify | **Examples:**  3/4 × 8/9 =  Cross cancel the 3 and the 9  Cross cancel the 4 and the8  1/1 × 2/3 = 2/3  3 **1/3** × 2 **1/3** =  Popcorn Popcorn  3 × 3+1= 10/3 3 × 2+1= 7/9  Cross Cancel the 3 and the 9  10/3×7/9 = 10/1×7/3 = 70/9  70/9= 7 **7/9** |
| **Dividing Fractions:**  \* “Popcorn” if it’s a mixed number  \* “When you divide, don’t ask why, flip the second and multiply!”  Or \* KFC: Keep the first, Flip the Second and Change the Sign | **Examples:**  2/3 ÷ 2/9 =  2/3 × 9/2 = 18/6 =3  1 **3/4** × 1 **1/4**=  7/4 × 5/4 = 28/20  Reduce: 14/10 = 7/5 = 1 **2/5** |