**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**  |