**Lessons 13 and 14 Study Guide**

**Big Ideas:**

1. **How do I multiply a whole number by a fraction?**
	1. **Rewrite the whole number as a fraction (whole number is numerator, denominator is 1) ex. 7 =** $\frac{7}{1}$
	2. **Multiply numerator by numerator and denominator by denominator**
	3. **Simplify if possible**
2. **How do I multiply a fraction by a fraction?**
	1. **Multiply numerator by numerator and denominator by denominator**
	2. **Simply if possible**
3. **What does multiplying fractions look like using a model?**



**This shows** $\frac{1}{5}$ **x** $\frac{3}{4}$ **(3 out of 4 rows are shaded and 1 out of 5 columns are shaded). The answer (**$\frac{3}{20}$**) is the double-shaded section.**

Practice:

1. **Pick whole numbers to multiply by fractions and fractions by whole numbers**
	1. **Order does NOT matter in multiplication**
2. **Pick fractions to multiply by fractions**
3. **Practice simplifying fractions!**
	1. **Find the Greatest Common Factor (or any common factor until there are none left) to divide both numerator and denominator**