



## 8th Grade Lesson 43

- I can multiply mixed numbers.
- I can divide mixed numbers.

The easiest way to multiply mixed numbers is to convert them to improper fractions and then multiply the fractions.

$$4\frac{1}{3} \cdot \frac{6}{5}$$

$$\frac{13}{3} \cdot \frac{26}{5} = \frac{26}{5}$$

$$2\frac{1}{4} \cdot 3\frac{1}{3} \cdot 5\frac{1}{12}$$

$$\frac{139}{4} \cdot \frac{510}{12} \cdot \frac{61}{2} = \frac{305}{8}$$

To divide mixed numbers, we first write the mixed numbers as improper fractions. Then we invert the divisor and multiply.

$$\frac{2\frac{1}{8}}{3\frac{2}{3}} \quad \frac{17}{8} \div \frac{11}{3}$$

$$\frac{17}{8} \cdot \frac{3}{11} = \frac{51}{88}$$

$$4\frac{1}{8} \div 2\frac{1}{5} \cdot 3\frac{1}{4} \div 5\frac{1}{2}$$

$$\frac{33}{8} \div \frac{11}{5} \cdot \frac{13}{4} \div \frac{11}{2}$$

$$\frac{33}{8} \cdot \frac{5}{11} \cdot \frac{13}{4} \cdot \frac{2}{11} = \frac{195}{176}$$



## Assignment:

Problem Set 43

due Monday