Fractions Video Lecture

Section 1.3

Course Learning Objective:

Simplify numerical expressions.

Weekly Learning Objectives:

1) **Write fractions in simplest form.**
2) **Multiply and divide fractions.**
3) **Add and subtract fractions.**

Fractions

Reducing Fractions:

$\frac{42}{49}$ $\frac{11}{27}$ $\frac{88}{20}$

Multiplying Fractions:

$$\frac{\text{Top * Top}}{\text{Bottom * Bottom}}$$

$\frac{3}{8} \cdot \frac{7}{9}$ $4 \cdot \frac{3}{8}$ $\frac{15}{4} \cdot \frac{8}{3}$

Dividing Fractions:
Change to multiply by the reciprocal (of the 2nd fraction)

$\frac{4}{5} \div \frac{5}{16}$

$\frac{7}{10} \div 14$

$\frac{3}{8} \div \frac{3}{10}$

Adding and Subtracting Fractions: Need a Common Denominator!

$\frac{3}{10} + \frac{2}{10}$

$\frac{5}{3} - \frac{1}{3}$

$$\frac{2}{5} + \frac{1}{4}$$

$$\frac{1}{2} + \frac{17}{22} - \frac{2}{11}$$

$$3\frac{1}{6} - 1\frac{11}{12}$$