

# Unit 1, Day 4

## 1.4 Adding & Subtracting Fractions

Evaluate:  $\frac{3}{8} + \frac{1}{8} = \frac{4}{8} = \frac{1}{2}$

1)  $3\frac{1}{2} - \frac{3}{4}$

$$= \frac{7}{2} - \frac{3}{4}$$

$$= \frac{7 \cdot 2}{2 \cdot 2} - \frac{3}{4}$$

$$= \frac{14}{4} - \frac{3}{4}$$

$$= \frac{11}{4}$$

3)  $-1\frac{3}{4} - 2\frac{1}{3}$

$$= -\frac{7}{4} - \frac{7}{3}$$

$$= -\frac{21}{12} - \frac{28}{12}$$

$$= -\frac{49}{12}$$

2)  $\frac{1}{4} - \frac{5}{6}$

$$= \frac{3}{12} - \frac{10}{12}$$

$$= -\frac{7}{12} = \frac{7}{-12} = -\frac{7}{12}$$

4) After filling your car tank with gas, you use  $\frac{1}{4}$  of the tank. The next day you use  $\frac{1}{6}$  of a tank, and the third day,  $\frac{3}{8}$  of a tank. How much fuel is left?

$$1 - \frac{1}{4} - \frac{1}{6} - \frac{3}{8}$$

$$\frac{24}{24} - \frac{6}{24} - \frac{4}{24} - \frac{9}{24}$$

$$= \frac{5}{24}$$