**Operations with Signed Fractions and Decimals** 

Example 1: Compute 
$$\frac{1}{3} + \left(-\frac{9}{20}\right)$$

Solution:When adding a positive number and a negative number, subtract the values and the numberfurther from zero determines the sign.

$$\frac{1}{3} + -\frac{9}{20} = \frac{1}{3} \cdot \frac{20}{20} + -\frac{9}{20} \cdot \frac{3}{3} = \frac{20}{60} + -\frac{27}{60} = -\frac{7}{60}$$

**Example 2:** Compute -1.25 + 3.90 = 2.65

Solution: Change any subtraction problem to "addition of the opposite" and then follow the addition process.

$$-1.25 - (-3.9) \Rightarrow -1.25 + 3.9 = -1.25 + 3.90 = 2.65$$

- 1.  $-\frac{2}{3} + \frac{1}{2}$  2.  $\frac{3}{4} \left(-\frac{5}{12}\right)$
- 3.  $-\frac{5}{7} + \frac{2}{3}$  4.  $-1\frac{6}{7} + \left(-\frac{3}{4}\right)$
- 25. -3.4 + (-32.65) 26. -7.5 14.93

## answers on next page...

1) $-\frac{1}{6}$
2) $1\frac{1}{6}$
3) $-\frac{1}{21}$
4) $-2\frac{17}{28}$
25) -36.05
26) -22.43