**Developing Mathematics Through Applications**

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Operations with Fractions**

Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period \_\_\_\_\_\_\_\_\_\_\_

**Explain how to do each problem. (You may need to do the problem in order to explain it.)**

**What do you need to remember about each operation with fractions?**

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| $$\frac{2}{3}+\left(\frac{4}{5}-\frac{3}{2}\right)$$ | $$\frac{4}{5}\left(\frac{10}{3}\right)-\frac{1}{2}$$ |
| $$\frac{2}{3}÷\frac{2}{5}-\left(\frac{3}{4}+\frac{1}{3}\right)$$ | $$\frac{5}{6}-\frac{7}{12}÷\frac{2}{3}∙\left(\frac{4}{3}\right)$$ |

**Perform the indicated operation and simplify.**

**1.)** $12-\left[3+4\left(\frac{3}{2}\right)÷\frac{2}{5}\right]+2$ **2.)** $\frac{5}{6}÷\frac{3}{4}-2\left(3-\frac{2}{3}\right)$

**3.)** $2-\left(\frac{3}{4}\right)\left(\frac{4}{5}\right)+\left(\frac{3}{4}-\frac{4}{3}\right)$ **4.)** $\left(\frac{5}{8}-\frac{2}{3}\right)÷\left(\frac{5}{6}+\frac{2}{12}\right)$

**5.)** $4-2\left[4-3\left(\frac{2}{3}\right)\right]$ **6.)** $12\left(\frac{2}{3}-\frac{3}{4}+\frac{1}{6}-\frac{7}{10}\right)$

**7.)** $\frac{3}{7}÷\frac{2}{5}∙\frac{1}{2}-\frac{3}{4} $ **8.)** $\frac{5}{9}+\frac{1}{12}÷\frac{2}{3}-3$