Mr. Johnson Math 8

<u>Lesson 3.9 – Order of Operations with Fractions</u>

Recall:

Last chapter we learned about the Order of Operations with Integers. We learned the acronym BEDMAS which helps us remember which operation to do first. Remember that fractions fall into the category of Aurosa.

Investigate:

Complete the investigate activity on page 153 of your textbook. You may choose to work with a partner, if you do, choose a partner you have not worked with this year. Use the space below to write down your solution. Be prepared to show your solution to the class.

$$\frac{9}{4} = (\frac{15}{16} - \frac{3}{8})$$

$$= \frac{9}{4} = (\frac{15}{16} - \frac{6}{16})$$

$$= \frac{9}{4} = \frac{9}{16}$$

$$= \frac{9}{4} \times \frac{16}{9}$$

$$= \frac{16}{4} \times \frac{16}{9}$$

$$= \frac{16}{4} \times \frac{16}{9}$$

Examples:

1.
$$\frac{1}{2} + \frac{1}{4} \times \frac{2}{3}$$

$$= \frac{1}{2} + \frac{3}{12}$$

$$= \frac{6}{12} + \frac{3}{12}$$

$$= \frac{9}{12}$$

$$= \frac{9}{12}$$

2.
$$\frac{3}{5} \times \left(\frac{1}{8} + \frac{2}{4}\right)$$

$$= \frac{3}{5} \times \left(\frac{1}{8} + \frac{2}{4}\right)$$

3.
$$2\frac{1}{2} - 3 \times \frac{1}{4}$$

$$= \frac{5}{2} - \frac{3}{2} \times \frac{1}{11}$$

$$= \frac{5}{2} - \frac{3}{2} \times \frac{1}{11}$$

$$= \frac{10}{4} - \frac{3}{4} \times \frac{1}{11}$$

$$= \frac{10}{4} - \frac{3}{4} \times \frac{1}{11}$$

$$= \frac{10}{4} - \frac{3}{4} \times \frac{1}{11}$$

Assignment:

Pg. 155 #'s 4-12