3.9 Order Of Operations With Fractions

Wednesday, October 28, 2015 2:04 PM

Unit 3: Operations with Fractions Math 8

3.9 Order of Operations with Fractions **Name**_____ _____

The order of operations for fractions is the SAME as for whole numbers.
BEDMAS

$\frac{3}{14} \div \left(\frac{5}{8} - \frac{1}{4}\right) + \frac{2}{7}$ (×2 on $\frac{1}{4}$, ×2)

$= \frac{3}{14} \div \left(\frac{5}{8} - \frac{2}{8}\right) + \frac{2}{7}$

Write the fractions in brackets with common denominators

$= \frac{3}{14} \div \frac{3}{8} + \frac{2}{7}$

Do the operation in brackets first.

$= \frac{1}{7}\frac{3}{14} \times \frac{8}{3_1}\frac{4}{1} + \frac{2}{7}$

Divide by multiplying by the reciprocal. (reverse/flip it.)

$= \frac{4}{7} + \frac{2}{7}$

Add.

$= \frac{6}{7}$

Remember!
You must use common denominators to add and subtract fractions.

Try these:

1. $\left(\frac{13}{16} - \frac{3}{4}\right) \times \frac{5}{8}$ (×12, ÷16)

$= \frac{1}{16} \times \frac{5}{8}$

$= \frac{5}{128}$

2. $\frac{7}{8} \div \left(\frac{3}{4} \div \frac{3}{4}\right)$

$= \frac{7}{8} \div 1$

$= \frac{7}{8} \div \frac{3}{4} \times \frac{4}{3}$

$= 1$

$= \frac{7}{8}$

3. $\frac{3}{4} \times \left(\frac{3}{4} - \frac{1}{4} \div \frac{1}{2}\right) = \frac{3}{4} \times \left(\frac{3}{4} - \frac{1}{2}\right)$ common denom.

$= \frac{3}{4} \times \frac{1}{4}$

$= \frac{3}{16}$

4. $\frac{7}{9} - \frac{5}{9} \times \frac{1}{4} = \frac{7}{9} - \frac{5}{36}$

$= \frac{28}{36} - \frac{5}{36}$

$= \frac{23}{36}$

* Ch. 3 Test around Nov. 9 *

- start reviewing Next, Next Monday.

Assignment: p. 155 #4, 6, 7, 8-10, 12