Order of Operations

with

Rational Numbers

$(-0.8) + 1.2 \div (-0.3) \times 1.5$

$= (-0.8) + (-4) \times 1.5$

$= (-0.8) + (-6)$

$= -6.8$

erase

1) $(-1.3) + 0.8 \div (-0.2) \times 5$

$(-1.3) + (-4) \times 5$

$(-1.3) + (-20)$

-21.3

2) $(-3.6) - 1.7 \div [0.6 - (-0.8)]^2$

$(-3.6) - 1.7 \div (1.4)^2$

$(-3.6) - 1.7 \div 1.96$

$-3.6 - 0.87$

-4.47

No Problem!
I know this!

BEDMAS

Using the Order of Operations with Fractions

BEDMAS

Remember fractions are just numbers

1) $\left(-\dfrac{3}{5}\right)\left(\dfrac{2}{5}\right) - \left(\dfrac{7}{30}\right) \div \left[\dfrac{3}{3} + \left(-\dfrac{1}{6}\right)\right]$

$\left(-\dfrac{3}{5}\right)\left(\dfrac{2}{5}\right) - \left(\dfrac{7}{30}\right) \div \left(\dfrac{3}{6} - \dfrac{1}{6}\right)$

$\left(-\dfrac{3}{5}\right)\left(\dfrac{2}{5}\right) - \left(\dfrac{7}{30}\right) \div \left(\dfrac{1}{3}\right)$

$\left(-\dfrac{6}{25}\right) - \left(\dfrac{7}{30}\right)\left(\dfrac{3}{1}\right)$

$-\dfrac{6}{25} - \dfrac{7}{10}$

$-\dfrac{12}{50} - \dfrac{35}{50} = \boxed{-\dfrac{47}{50}}$

Do we need more practice?

1)

$$\left(-1\frac{3}{4}\right) - \left(-3\frac{1}{2} + 5\right)\left(-3\frac{1}{2} + 5\right)$$

$$\left(-\frac{7}{4}\right) - \left(-\frac{7}{2} + \frac{10}{2}\right)\left(-\frac{7}{2} + \frac{10}{2}\right)$$

Remember to switch mixed to improper fractions

$$\left(-\frac{7}{4}\right) - \left(\frac{3}{2}\right)\left(\frac{3}{2}\right)$$

Make common denominators inside brackets

$$\left(-\frac{7}{4}\right) - \frac{9}{4} = -\frac{16}{4} = -4$$

Complete Brackets

Multiply

$$\left(\frac{3}{2}\right)^2$$

$$\left(\frac{3}{2}\right)\left(\frac{3}{2}\right)$$

$$\frac{9}{4}$$

Class / Homework

Write out the questions and show all work!
(Hint take your time and do one step at a time)

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If you finish this material then work on the review worksheets from Friday