3.6 order of operations with rational numbers

Tuesday, September 29, 2015 9:23 AM

MATH 9 Name_____ _____

3.6 ORDER OF OPERATIONS WITH RATIONAL NUMBERS NOTES

Warm up: Look at the problem at the top of pg 137 and answer the ~~questions~~.

student#1: did subtraction as the first step (wrong)

student#2: multiplied (2)(-3) before doing the exponent.

$(-8)-2((24\div(-8))^2$

$=(-8)-2((-3)^2)$

$=(-8)-2(9)$

$=-8-18$

$=-26$

What is the key word for order of operations?

BEDMAS B: brackets E: exponents DM: division/multiplication AS: addition/subtraction

Examples

1) Evaluate $(-3.2)-0.9\div[0.7-(-1.2)]^2$

$=(-3.2)-0.9\div(1.9)^2$

$=(-3.2)-(0.9\div 3.61)$

$=(-3.2)-0.25$

$=-3.45$

2) Simplify $3(-2+6)-5(4-1)$ YOU TRY

$3(4)-5(3)=$

$12-15=$

-3

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3) $-\frac{4}{5}\left[\frac{3}{8}+\frac{7}{-4}\right]$ $\times 2$ $\times 2$

$\frac{7}{-4} = \frac{-7}{4} = -\frac{7}{4}$ * copy/check your work! *

$= -\frac{4}{5}\left[\frac{3}{8}+-\frac{14}{8}\right]$

$= -\frac{1}{\cancel{4}}{}^{1}\left(-\frac{11}{\cancel{8}2}\right)$

$= \frac{11}{10} = 1\frac{1}{10}$

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Assignment: 3.6 worksheet + p. 140 #3, 4, 8, 10

CH3 TEST TUES. OCT 6