

Name _____

Date _____

Advanced Real World Math Operations - Step-by-Step Lesson

Operations Review:

1. Calculate: $[-12(-0.8)] - [(-8) \times 0.22]$



Explanation:

There are certain rules to solve problems like this. We can remember the order in which we do basic operations with the acronym **PEMDAS**. The first letter (left to right) indicates the first operation and we proceed from there.

PEMDAS stands for:

P (Parenthesis or Brackets) **Performed first**

E (Exponents)

M (Multiplication)

D (Division)

A (Addition)

S (Subtraction)

Apply this to our problem:

Rule 1) First the brackets ([]) should be solved.

Rule 2) When two unlike signs are multiplied, you will get a negative sign.

Rule 3) When two like signs are multiplied, you will get a positive sign.

Step 3) $[-12(-0.8)] - [(-8) \times 0.22]$ (Brackets)

$[9.6] - [-8 \times 0.22]$ (Multiplication)

$[9.6] - [-1.76]$ (Subtraction) (minus a minus, results in a plus)

$9.6 + 1.76 = 11.36$

