

DISK 2 Lesson 8 - Order of Operations

STANDARD: Algebra

LEVEL: EM – M - H

PURPOSE: To realize the need for Order of Operations and develop the basic skills of doing the correct order

STRATEGY:

Parenthesis & Grouping Symbols

Exponents

Multiplying (L to R - either order)

Dividing

Adding (L to R – either order)

Subtracting

DIRECTIONS: Simplify each expression (find the final answer) by applying the correct Order of Operations.

HINT: On some, recognize that the adding & subtracting are done last (look at them as "terms"). For example, $25 \times 3 + 10 / 2$, do both sides of the addition sign first, then "put together" the two sides. And, you must do the top & bottom of the grouping symbols (division line) before you can divide. For example, $5 + 3 = 8$, then $(2^2 \times 2) = 8$, now you can divide $8 / 8 = 1$. Last, take $10 - 1 = 9$.

$$3 - 25 \cdot 3 \div 75$$

$$10^2 + 7 \cdot 3$$

$$10 - \frac{5 + 3}{(2^2 \cdot 2)}$$

$$25 \cdot 3 + 10 \div 2$$

$$3 + (5 - 5) + 1$$

$$(3 + 5) \cdot 5 + 1$$

$$4 \cdot \frac{10 \cdot 2}{(5 - 3)}$$

$$3 + 5 \cdot 5 + 1$$

