# Order of Operation 

## Please Excuse My Dear Aunt Sally

This is a funny saying to help you remember the way (or order) you do math problems that have more than one operation.

P - If a problem has parentheses, do them first
E - If a problem has exponents, do them second $\mathbf{M}$ - If a problem has multiplication, do that next OR

D - If a problem has division, do that next
A - If a problem has addition, do that next OR
S - If a problem has subtraction, do that next

Some students want to do ALL of the multiplication first then ALL of the division. Same way for addition and subtraction. This is wrong. Do multiplication OR division from left to right as you see it. Don't skip around. The same goes for addition and subtraction.

Example: $\quad 10 \div 2 \times 3 \div 3 \times 5=X$ $5 \times 3 \div 3 \times 5=X$ $15 \div 3 \times 5=x$ $5 \times 5=X$ $25=X$

Example: $\quad 10 \div 2 \times 3 \div 3 \times 5=x$

$$
\begin{gathered}
10 \div 6 \div 3 \times 5=X \\
10 \div 6 \div 15=X \\
1.667 \div 15=X \\
.111=X
\end{gathered}
$$



