

## 1/16 Order of Operations (X, ÷, +, -)

- 1.<sup>st</sup>) P - parentheses (grouping symbols.)  
( ), [ ], { }, -
- 2.<sup>nd</sup>) E - exponents
- 3.<sup>rd</sup>) M/D - multiplication / Division left <sup>(order)</sup> → right
- 4.<sup>th</sup>) A/S - addition / Subtraction left → right

$$10(28-23) - 4^2 \div 2 + 18$$

$$10(5) - 4^2 \div 2 + 18$$

$$10(5) - 16 \div 2 + 18$$

$$50 - 16 \div 2 + 18$$

$$50 - 8 + 18$$

$$42 + 18$$

$$\boxed{60}$$

P ✓  
E ✓  
M/D  
A/S  
Which comes first

=====  
multiplication

$$6(2)$$

$$6 \cdot 2$$

$$6 \times 2$$

6y

$$24 + \underline{3 \cdot 4} - 15$$

$$\underline{24 + 12} - 15 \rightarrow \text{which comes}$$

1<sup>st</sup>/A or S

$$36 - 15$$

21

$$\begin{array}{r} 36 \\ -15 \\ \hline 21 \end{array}$$

|||  
||  
|

1<sup>st</sup> P  
2<sup>nd</sup> E  
3<sup>rd</sup> M/D  
4<sup>th</sup> A/S

$$4 \cdot 6 - 2 + \underline{(3-1)}$$

✓P

✓E

$$\underline{4 \cdot 6} - 2 + 2$$

✓M or D

$$\underline{24} - 2 + 2$$

Which one comes first? A or S  
A or **S**

$$22 + 2$$

$$\boxed{24}$$

$$\frac{6 + 10}{2 \cdot 4} = \frac{16}{8} = \boxed{2}$$

$$\begin{array}{r} 2 \\ 8 \overline{)16} \\ \underline{-16} \\ 0 \end{array}$$

P  
E  
M or D  
A or S

Evaluate  $3m + 2 \cdot 4$   
if  $m = 4$

$$\underline{3(4)} + 2 \cdot 4$$

$$12 + \underline{2 \cdot 4}$$

$$12 + 8$$

$$\boxed{20}$$

- 1.) Solve numer
- 2.) Solve denom

1.) Replace variable  
with appro. #.

$$3m = 3 \cdot m$$
$$3(4) = 3 \cdot 4$$