**Order of Operations:**

When simplifying or evaluating an expression, proceed in this order:

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ are done first
2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ are done next
3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ are done as they occur left to right
4. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ are done as they occur left to right

**★**When there are 2 or more parenthesis or grouping symbols🡪 Perform the *inner* most one first!

**Solve the following using the Order of Operations. Circle answers please!**

1) 5 + 8 ● 2 – 4 2) $\frac{20+4}{4+ 3^{2}-1 }$

3) $\frac{1}{4}$(8●3) + 7 4) 11 – 24(8 – 5) $÷$ 22

5) -32 + 4[16 $÷$ (-7 + 5)] 6) 6 $÷$ [4 – (6 – 8)] + 33

**Evaluating Expressions:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. 2x2 + 6 ; when x=4 8) 2x3 + 5 ; when x=10

9) $\frac{x}{3}$ – 12y ; when x=15 and y=-3 10) $\frac{xy-2z}{-(-x)}$ ; when x=-4, y =5, and z=-2

**Combining Like Terms and Distributing**

11) -12x + 7x 12) -5n + 3(6 + 7n) 13) -9(6m – 3)+6(1 + 4m)

14) -3(10b+ 10) + 5b(b + 2) 15) 2x + 3(4x + 5y) + 9y 16) -8x(x + 1) – 3x2 + 4