

Name \_\_\_\_\_

## Order of Operations and Evaluating Expressions

Evaluate the following expressions. Don't forget about PEMDAS!!!

1.  $3+5\cdot6$

2.  $3(6-7)+2^3$

3.  $6-4\div2\cdot3$

4.  $2(12-9)^3-2^3$

5.  $\sqrt{36}-2\cdot5$

6.  $2(8-3)+4(2+3)$

7.  $3\cdot5-2^3\div2$

8.  $2\cdot5^2-3\cdot2^2$

9.  $4^2-(8\div4)^3-3$

10.  $6^2-\sqrt{16}+8\div2\cdot3$

11.  $100-4^3+12\div4\cdot2$

12.  $2\cdot8-5\cdot3+6\div3$

13.  $x^2 - 8$  when  $x = 5$

14.  $5(y^3 - 2)$  when  $y = 3$

15.  $3ab - 2a$  when  $a = 2$  and  $b = 4$

16.  $6 \div q + 5$  when  $q = -2$

17.  $4m^2 - m^3$  when  $m = 2$

18.  $-2x - x$  when  $x = 10$

19.  $-4 + 6(x - 2) + x^2$  when  $x = 5$

20.  $5 - \sqrt{k} + 2k - 2$  when  $k = 16$

21.  $4z + 2w^2 - 3z$  when  $w = 3$  and  $z = 0$

22.  $4t^2 - 3t + 5$  when  $t = 2$

23.  $3(2d - 4)^2 - 2d$  when  $d = 4$

24.  $r(12 - 3r) + 2\sqrt{r}$  when  $r = 4$