## Math 9

## 2.3 - Order of Operations with Powers

Name: $\qquad$

Does it matter in what order we calculate $-2 \times 3^{2}+10$ ? Let's see...

The order in which we must calculate expressions is determined by BEDMAS:
B
E
D
M
A
S

Some free tips for evaluating expressions:

1. Use BEDMAS to determine which operation to perform first and underline it!
2. Perform the underlined operation only.
3. Repeat steps 1 and 2 until the expression has been fully evaluated.

Examples: Evaluate the following:

1. $3^{4}+4^{3}$
2. $12-2^{4}$
3. $(4+2)^{3}$
4. $2^{2} \times 3^{3}$
5. $(-3)^{4}+5^{6}$
6. $4-3 \times 2^{4}$
7. $(-2)^{3} \times 3^{2}+15$
8. $\left[3^{0} \times(-4)^{3}-12\right]^{2}$
9. $5^{3}-3 \times 2^{5}+32$
10. $5^{2} \div\left[(-10)^{2} \div(-4)\right]$
11. $\frac{\left(10-2^{2}\right)^{2}-6}{-2^{4}+10}$
12. Congratulations! You've just won a lottery for \$1 Million. All you need to do is correctly answer the skill testing question below and the prize is yours. Good luck!!

Skill Testing Question: $-\left(40-3 \times 2^{3}\right) \div\left[(-4)^{2}-40^{0} \times 12\right]$

