**Example**: Write each word phrase as a mathematical expression. Use n as the variable when needed. Then simplify if possible.

9.) the fourth power of two, minus three squared

$(2^4) - 3^2$

$16 - 3^2$

$16 - 9 = 7$

10.) the sum of a number and four, raised to an exponent of 3, minus five

$(n+4)^3 - 5$

**Example**: Write each expression as a word phrase.

11.) $3^3 - x$

* three cubed minus a number
* the third power of three decreased by a number
* the difference of three cubed & a number

12.) $(4y - 2) + 9$

* 4y minus 2, increased by 9
* 4y take away 2, added to 9
* the difference of 4y & 2, plus 9

13.) * Ann sells 15 tickets to the school play. Gail sells 5 fewer tickets than Ann. Michele sells twice as many tickets as Gail, squared. How many tickets do Ann, Michelle, and Gail sell in all?

Ann $\Rightarrow$ 15

Gail $\Rightarrow$ $15-5=10$

Michelle $\Rightarrow$ $2 \cdot 10 = (20)^2 = 400$

Total: $15+10+400 =$ **425 tickets!**