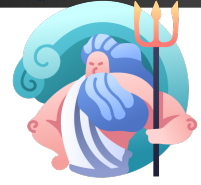Name: _____

Translating Variable Equations

Part I Write a statement for each of the following algebraic expressions:

1.) $x + 5 = 9$

5.) $xy = 16$

2.) $2y - 3 = 7$

6.) $5p - q = 10$

3.) $3z = 12$

7.) $x^2 + 1 = 22$

4.) $\dfrac{m}{4} + 7 = 6$

8.) $\dfrac{-7x}{3} = 100$

Part II Write an algebraic expression for each of the following statements:

9.) *y cubed is 27*

13.) *four times g is the sum of h and 8*

10.) *x times eleven equals 55*

14.) *The quotient of j and 5 increased by k is 9*

11.) *the quotient of x squared and 2 is 72*

15.) *the sum of one-third x and one-half y is 1*

12.) *the sum of 9 and x is two-thirds*

16.) *The product of 5 and p decreased by the quotient of r and 7 equals 36*

1.) The sum of x and 5 equals 9

2.) Twice y minus 3 is 7

3.) The product of 3 and z equals 12

4.) One quarter of m plus 7 equals 6

5.) The product of x and y equals 16

6.) Five times p decreased by q is 10

7.) The sum of x squared and 1 equals 22

8.) The quotient of -7x and 3 is 100

9.) $y^3 = 27$

10.) $11x = 55$

11.) $\dfrac{x^2}{2} = 72$

12.) $9 + x = \dfrac{2}{3}$

13.) $4g = h + 8$

14.) $\dfrac{j}{5+k} = 9$

15.) $\dfrac{x}{3} + \dfrac{y}{2} = 1$

16.) $5p - \dfrac{r}{7} = 36$