

Prealgebra**Name:** _____**HW: Evaluating Expressions**Given that $a = 4$, $b = -5$, $c = 3$, $d = 8$, $x = 2$, $y = -1$, and $z = -6$, evaluate the following:

1.) $ay + 7z$

2.) $xz - ab$

3.) $(ab)^2 + 2d$

4.) $bz^2 - y$

5.) $bc^3 + 2(c + z)$

6.) $-z(a - b)$

7.) $a^2 + b^2$

8.) $\frac{ay - dz}{a + z}$

Given that $a = 1$, $b = -2$, $c = 3$, $d = -4$, $x = 5$, $y = -6$, and $z = 7$, evaluate the following:

9.) a^2b^2

10.) $ab + c - d$

11.) $-c^2$

12.) $(-c)^2$

13.) $\frac{bc-d+2}{y \div b + c}$

14.) $\frac{x+y+z}{d \div b}$

Is the given equation true or false when the number is substituted?

15.) $6w + 20 = 38$ ($w = 3$)

16.) $\frac{4}{5}x = 32$ ($x = 40$)