Pre-Algebra: Semster 1 Review

Name_____

Assignment #1

Date_____ Period_____

Simplify. Your answer should contain only positive exponents.

1) $\left(4x^3\right)^2$

2) $\left(2m^2\right)^3$

Evaluate each using the values given.

3) $\dfrac{b}{5} + a - (2 - a)$; use $a = 2$, and $b = 5$

4) $x + y(y + 5 - z)$; use $x = 2$, $y = 5$, and $z = 4$

Evaluate each expression.

5) $4 - \dfrac{18}{2 \cdot 4 - 2}$

6) $\dfrac{10}{2} - (5 - (1 + 1))$

Write each as a fraction.

7) 0.32

8) 0.8

Write each as a decimal. Round to the thousandths place.

9) $\dfrac{8}{25}$

10) $\dfrac{4}{25}$

Solve each equation.

11) $v - 19 = -37$

12) $7 = 15 + n$

13) $19 = \dfrac{n}{2}$

14) $-20 = -2x$

15) $x + \dfrac{21}{16} = \dfrac{37}{16}$

16) $a + \dfrac{1}{6} = -\dfrac{5}{6}$

Find each quotient.

17) $\dfrac{-1}{4} \div \dfrac{-2}{3}$

18) $3\dfrac{1}{2} \div \dfrac{11}{8}$

Simplify. Your answer should contain only positive exponents.

19) $\dfrac{4v^4}{6v}$

20) $\dfrac{7n^2}{5n^2}$

21) $\dfrac{4xy}{4y^2}$

22) $\dfrac{6x^3 y^4}{8yx^3}$