

Unit 1 Homework #4 Sections 1.1-1.3

Date _____ Period _____

Name the set or sets to which each number belongs.

N-natural # W-whole # Z-integers Q-rational # Ir-irrational # R-real #

1) $\frac{19}{14}$

2) -3

3) $\sqrt{31}$

4) 4

Evaluate each using the values given.

5) $x + 15 + x + x - 12 + z$; use $x = -15$, and $z = 13$

6) $\frac{r + r + p - (-6 + r)}{4}$; use $p = -10$, and $r = -16$

7) $6 - \frac{q - m + 10 + p}{5}$; use $m = -10$, $p = -14$, and $q = -1$

8) $(z - z)^2 + 17(x - z)$; use $x = 19$, and $z = 17$

Simplify each expression.

9) $1 - 29x - 45$

10) $1 + 13a - 5 + 32a$

11) $9(p + 7) - 2$

12) $-7r - 8(6r - 4)$

13) $2(5 - 3a) + 13(8 + 7a)$

14) $-9(9 - 6m) + 4(14m + 11)$