

**Classify the following numbers as members of sets (natural, whole, integer, rational, irrational, and real numbers).**

Real (R): Everything below

Rational (Q): .5, .68, 2, -4,  $\sqrt{25}$ ,  $\frac{1}{4}$ , etc.

Irrational (I): .382...,  $\pi$ , -2.410...,  $\sqrt{3}$ , etc.

Integer (Z): {...-3, -2, -1, 0, 1, 2, 3...}

Whole (W): {0, 1, 2, 3, ...}

Natural (N): {1, 2, 3, ...}

1)  $\sqrt{13}$

2)  $\sqrt{4}$

3) 1.32

4)  $4.\bar{6}$

5)  $\frac{7}{8}$

6) -1

7) -3.4

8) 6

9)  $3\frac{1}{2}$

10)  $\sqrt{51}$

11) -8.42

12) 3

13)  $7\frac{1}{2}$

14)  $-\sqrt{6}$

15) 12

16) .345...

17)  $4.\bar{2}$

18) -8