

**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, ...}

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|--------------------|------------------|-------------------|
| 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            |