

2 - 1

Rational Numbers

(N) Natural: 1, 2, 3, 4, 5,

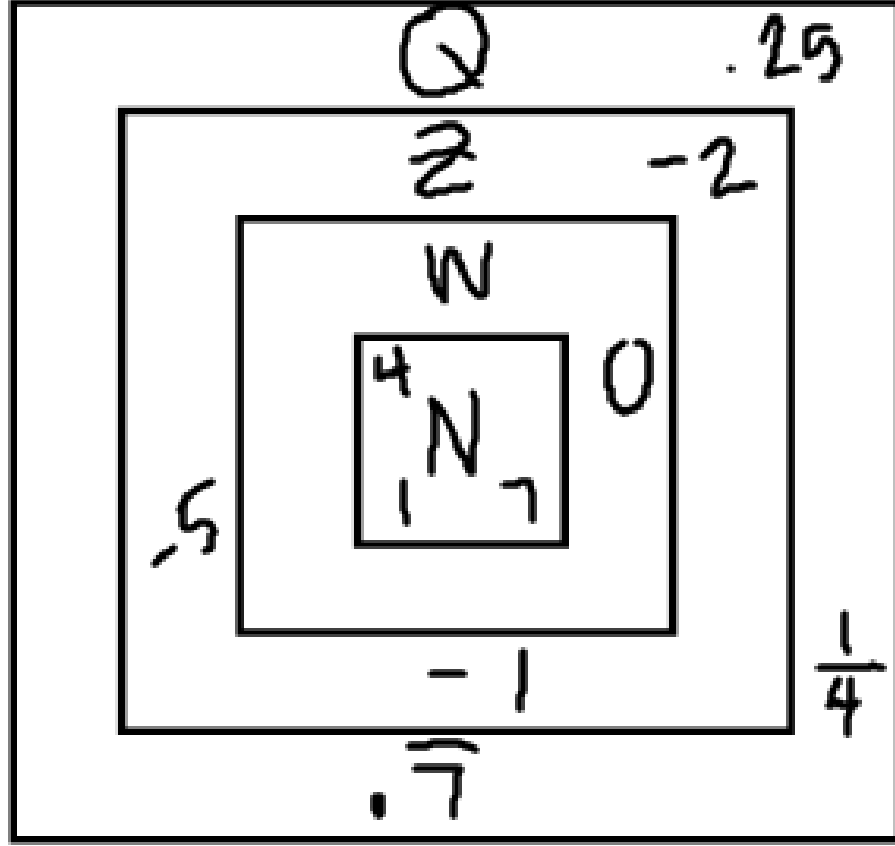
(W) Whole: 0, 1, 2, 3, 4,

(Z) Integer: -3, -2, -1, 0, 1, 2, 3,

(Q) Rational: any # that can be expressed as $\frac{a}{b}$ ($b \neq 0$)

* includes decimals that terminate or repeat





Name the group(s) in which each number fits.

Ex: $-\frac{2}{3}$ \mathbb{Q}

Ex: 7 $\mathbb{N}, \mathbb{W}, \mathbb{Z}, \mathbb{Q}$

Ex: 6.32 \mathbb{Q}

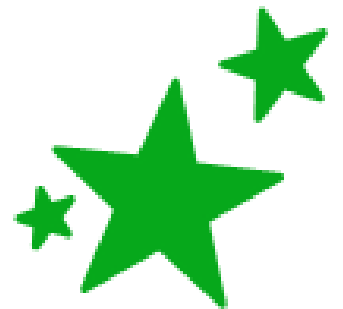
Ex: 0 $\mathbb{W}, \mathbb{Z}, \mathbb{Q}$



absolute value: distance from zero on
a number line

$$|4| = 4$$

$$|-4| = 4$$



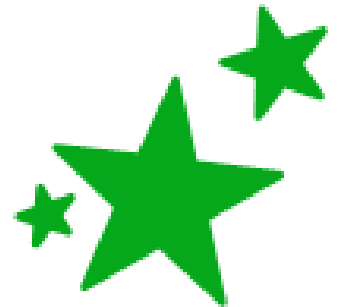
Ex: Evaluate $15 - |x + 4|$ if $x = 8$.

$$15 - |8 + 4|$$

$$15 - |12|$$

$$15 - 12$$

$$\boxed{3}$$



Ex: Evaluate $15 - |x + 4|$ if $x = -8$.

$$15 - |-8 + 4|$$

$$15 - |-4|$$

$$15 - 4$$

$$= 11$$

~~$$15 + (-4)$$
$$11$$~~

