



## Number Types (Real) - Classification to Set Builder Definition - Whole, Natural, Integer, Rational, Irrational Numbers

<b>1</b> Select the set that means an irrational number Irrational Number		Select the set that means a natural number Natural Number	
A $\{bi \mid b \in \mathbb{R}, b \neq 0\}$	B $\{x \mid x \in \mathbb{N}\}$	A $\{x \mid x \in \mathbb{R}, x \notin \mathbb{Q}\}$	B $\{x \mid x \in \mathbb{W}\}$
C $\{x \mid x \in \mathbb{W}\}$	D $\{x \mid x \in \mathbb{R}, x \notin \mathbb{Q}\}$	C $\{bi \mid b \in \mathbb{R}, b \neq 0\}$	D $\{x \mid x \in \mathbb{N}\}$
<b>3</b> Select the set that means a whole number Whole Number		<b>4</b> Select the set that means a real number Real Number	
A $\{x \mid x \in \mathbb{W}\}$	B $\{x \mid x \in \mathbb{N}\}$	A $\{bi \mid b \in \mathbb{R}, b \neq 0\}$	B $\{x \mid x \in \mathbb{R}\}$
C $\{a + bi \mid a, b \in \mathbb{R}\}$	D $\{x \mid x \in \mathbb{R}\}$	C $\{x \mid x \in \mathbb{R}, x \notin \mathbb{Q}\}$	D $\{a + bi \mid a, b \in \mathbb{R}\}$
<b>5</b> Select the set that means a rational number Rational Number			
A $\{x \mid x \in \mathbb{N}\}$	B $\{x \mid x \in \mathbb{Q}\}$		
C $\{x \mid x \in \mathbb{R}, x \notin \mathbb{Q}\}$	D $\{x \mid x \in \mathbb{W}\}$		