Name

Number Types (Complex) - Classification to Set Builder Definition - Real, Imaginary, and Complex Numbers

1 Select the set that means an irrational number — Irrational Number

A $\{x \mid x \in \mathbb{R}\}$	B $\{x \mid x \in \mathbb{N}\}$
C $\{x \mid x \in \mathbb{R}, x \notin \mathbb{Q}\}$	D $\{a+bi \mid a, b \in \mathbb{R}, b \neq 0\}$

2 Select the set that means a real number — Real Number

A $\{x \mid x \in \mathbb{Q}\}$	B $\{a+bi \mid a, b \in \mathbb{R}, b \neq 0\}$
C $\{x \mid x \in \mathbb{N}\}$	D $\{x \mid x \in \mathbb{R}\}$

3 Select the set that means a natural number — Natural Number

A $\{x \mid x \in \mathbb{W}\}$	B $\{a+bi \mid a, b \in \mathbb{R}, b \neq 0\}$
C $\{a+bi \mid a, b \in \mathbb{R}\}$	D $\{x \mid x \in \mathbb{N}\}$

4 Select the set that means a whole number — Whole Number

A $\{x \mid x \in \mathbb{N}\}$	B $\{bi \mid b \in \mathbb{R}, b \neq 0\}$
C $\{a+bi \mid a, b \in \mathbb{R}, b \neq 0\}$	D $\{x \mid x \in \mathbb{W}\}$

5 Pure Imaginary Number — Select the set that means a pure imaginary number

A $\{x \mid x \in \mathbb{R}, x \notin \mathbb{Q}\}$	
B $\{a+bi \mid a, b \in \mathbb{R}, b \neq 0\}$	
C $\{x \mid x \in \mathbb{N}\}$	
D $\{bi \mid b \in \mathbb{R}, b \neq 0\}$	

6 Select the set that means a complex number — Complex Number

A $\{a+bi \mid a, b \in \mathbb{R}\}$	B $\{x \mid x \in \mathbb{R}, x \notin \mathbb{Q}\}$
C $\{x \mid x \in \mathbb{Q}\}$	D $\{x \mid x \in \mathbb{R}\}$

7 Select the set that means a rational number — Rational Number

A $\{x \mid x \in \mathbb{Q}\}$	B $\{x \mid x \in \mathbb{R}\}$
C $\{a+bi \mid a, b \in \mathbb{R}, b \neq 0\}$	D $\{bi \mid b \in \mathbb{R}, b \neq 0\}$

8 Select the set that means an imaginary number — Imaginary Number

A $\{a+bi \mid a, b \in \mathbb{R}\}$	B $\{x \mid x \in \mathbb{R}\}$
C $\{a+bi \mid a, b \in \mathbb{R}, b \neq 0\}$	D $\{x \mid x \in \mathbb{R}, x \notin \mathbb{Q}\}$