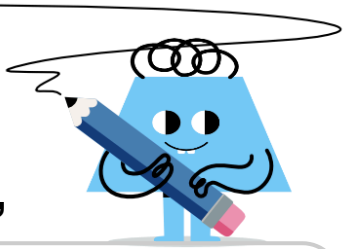
Name



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

1 Which number would be included in this set definition

$$\{x \mid x \in \mathbb{R}, x \notin \mathbb{Q}\}$$

A	B	C
$3+\frac{\sqrt{47}i}{4}$	$\frac{\sqrt{43}}{3}$	$-\frac{12}{3}$

2 Which number would be included in this set definition

$$\{x \mid x \in \mathbb{Q}\}$$

A	B
$\frac{9}{49}$	$\sqrt{37}i$
C	
$2+\sqrt{23}i$	

3 Which number would be included in this set definition

$$\{a+bi \mid a, b \in \mathbb{R}, b\neq 0\}$$

A	B
$-\frac{16}{2}$	$1+\sqrt{79}i$
C	
$0.\overline{11}$	

4 Which number would be included in this set definition

$$\{x \mid x \in \mathbb{W}\}$$

A	B	C
$-4.\overline{5}$	$3+\frac{\sqrt{23}i}{7}$	$\frac{0}{6}$

5 Which number would be included in this set definition

$$\{bi \mid b \in \mathbb{R}, b\neq 0\}$$

A	B	C
$\sqrt{\frac{16}{4}}$	$1+\frac{\sqrt{17}i}{9}$	$\sqrt{89}i$

6 Which number would be included in this set definition

$$\{x \mid x \in \mathbb{N}\}$$

A	B
$\sqrt{17}i$	$\frac{12}{3}$
C	
$1+\sqrt{67}i$	