



## Number Types (Complex) - Description to Set Builder Letter - Real, Imaginary, and Complex Numbers

**1** Select the symbol that matches this description

A number that cannot be expressed as a simple fraction (e.g.,  $\sqrt{2}$ ,  $\pi$ ).

A	$\mathbb{N}$	B	$\mathbb{W}$
C	$\mathbb{R}$	D	$\mathbb{Q}'$

**2** Select the symbol that matches this description

A non-negative integer (0, 1, 2, 3, ...).

A	$\mathbb{Q}'$	B	$\mathbb{Q}$
C	$\mathbb{C}$	D	$\mathbb{W}$

**3** Select the symbol that matches this description

Any number that can be expressed as a fraction of two integers (e.g.,  $1/2$ ,  $-3/4$ , 5).

A	$\mathbb{Q}$	B	$\mathbb{C}$
C	$\mathbb{W}$	D	$i$

**4** Select the symbol that matches this description

Any number that can be found on the number line, including both rational and irrational numbers.

A	$\mathbb{N}$	B	$i$
C	$\mathbb{R}$	D	$\mathbb{Q}$

**5** Select the symbol that matches this description

A number that has either/both a real and an imaginary part (e.g., 6,  $-7i$ ,  $3 + 4i$ ).

A	$\mathbb{Q}'$	B	$\mathbb{C}$
C	$\mathbb{R}$	D	$i$

**6** Select the symbol that matches this description

A positive integer (1, 2, 3, ...).

A	$\mathbb{Q}'$	B	$\mathbb{N}$
C	$\mathbb{R}$	D	$i$

**7** Select the symbol that matches this description

A number that includes a real part and an imaginary part (e.g.,  $3 + 4i$ ).

A	$i$	B	$\mathbb{Q}'$
C	$\mathbb{Q}$	D	$\mathbb{W}$