Name

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

1 Select the description that matches this symbol

$\mathbb{R}$

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

B A number that can be expressed as a real number multiplied by the imaginary unit i (e.g., 2.5i).

C A number that cannot be expressed as a simple fraction (e.g., √2, π).

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

2 Select the description that matches this symbol

$\mathbb{C}$

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

B A number that can be expressed as a real number multiplied by the imaginary unit i (e.g., 2.5i).

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

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

3 Select the description that matches this symbol

$\mathbb{N}$

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

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

C A number that cannot be expressed as a simple fraction (e.g., √2, π).

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

4 Select the description that matches this symbol

$\mathbb{W}$

A A number that can be expressed as a real number multiplied by the imaginary unit i (e.g., 2.5i).

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

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

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

5 Select the description that matches this symbol

$\mathbb{Q}$

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

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

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

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

6 Select the description that matches this symbol

$\mathbb{Q}'$

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

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

C A number that cannot be expressed as a simple fraction (e.g., √2, π).

D A number that can be expressed as a real number multiplied by the imaginary unit i (e.g., 2.5i).

7 Select the description that matches this symbol

i

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

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

C A number that can be expressed as a real number multiplied by the imaginary unit i (e.g., 2.5i).

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