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

Name

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

$\mathbb{R}$

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

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

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

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

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

$\mathbb{N}$

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

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

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

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

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

$\mathbb{W}$

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

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

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

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

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

$\mathbb{Q}$

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

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

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

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