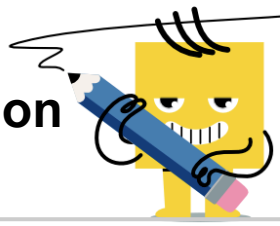
Name

Number Types (Complex) - Classification to Description - Real, Imaginary, and Complex Numbers



1 Select the description that matches a real number

Real Number

- A Any number that can be expressed as a fraction of two integers (e.g., 1/2, -3/4, 5).
- B Any number that can be found on the number line, including both rational and irrational numbers.
- 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 cannot be expressed as a simple fraction (e.g., √2, π).

2 Select the description that matches an irrational number

Irrational Number

- A A number that cannot be expressed as a simple fraction (e.g., √2, π).
- B A positive integer (1, 2, 3, ...).
- C A number that can be expressed as a real number multiplied by the imaginary unit i (e.g., 2.5i).
- 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 a pure imaginary number

Pure Imaginary Number

- A A non-negative integer (0, 1, 2, 3, ...).
- B A number that has a real and an imaginary part (e.g. 3 + 4i).
- C Any number that can be found on the number line, including both rational and irrational numbers.
- D A number that can be expressed as a real number multiplied by the imaginary unit i (e.g., 2.5i).

4 Select the description that matches a rational number

Rational Number

- A Any number that can be expressed as a fraction of two integers (e.g., 1/2, -3/4, 5).
- B A non-negative integer (0, 1, 2, 3, ...).
- C A number that has a real and an imaginary part (e.g. 3 + 4i).
- D A number that can be expressed as a real number multiplied by the imaginary unit i (e.g., 2.5i).

5 Select the description that matches a whole number

Whole Number

- A A non-negative integer (0, 1, 2, 3, ...).
- B Any number that can be found on the number line, including both rational and irrational numbers.
- 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 has a real and an imaginary part (e.g. 3 + 4i).

6 Select the description that matches a natural number

Natural Number

- A A positive integer (1, 2, 3, ...).
- B Any number that can be found on the number line, including both rational and irrational numbers.
- C Any number that can be expressed as a fraction of two integers (e.g., 1/2, -3/4, 5).
- 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 a complex number

Complex Number

- A A non-negative integer (0, 1, 2, 3, ...).
- B A positive integer (1, 2, 3, ...).
- C Any number that can be found on the number line, including both rational and irrational numbers.
- D A number that has a real and an imaginary part (e.g. 3 + 4i).