



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

<b>1</b> Select the description that matches a natural number <b>Natural Number</b>		<b>2</b> Select the description that matches a complex number <b>Complex Number</b>	
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	A A number that has either/both a real and an imaginary part (e.g. $6 - 7i$ , $3 + 4i$ )	B Any number that can be found on the number line, including both rational and irrational
C A positive integer (1, 2, 3, ...).	D Any number that can be expressed as a fraction of two integers (e.g. $1/2$ , $-3/4$ , $5$ )	C A number that can be expressed as a real number multiplied by the imaginary unit	D A non-negative integer (0, 1, 2, 3, ...).
<b>3</b> Select the description that matches a whole number <b>Whole Number</b>		<b>4</b> Select the description that matches an imaginary number <b>Imaginary Number</b>	
A A number that cannot be expressed as a simple fraction (e.g. $\sqrt{2}$ , $\pi$ )	B A non-negative integer (0, 1, 2, 3, ...).	A A number that cannot be expressed as a simple fraction (e.g. $\sqrt{2}$ , $\pi$ )	B A non-negative integer (0, 1, 2, 3, ...).
C A number that has either/both a real and an imaginary part (e.g. $6 - 7i$ , $3 + 4i$ )	D A number that can be expressed as a real number multiplied by the imaginary unit	C A number that can be expressed as a real number multiplied by the imaginary unit	D A number that includes a real part and an imaginary part (e.g. $3 + 4i$ ).
<b>5</b> Select the description that matches an irrational number <b>Irrational Number</b>		<b>6</b> Select the description that matches a real number <b>Real Number</b>	
A A number that includes a real part and an imaginary part (e.g. $3 + 4i$ )	B A positive integer (1, 2, 3, ...).	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 Any number that can be expressed as a fraction of two integers (e.g. $1/2$ , $-3/4$ , $5$ )	D A number that cannot be expressed as a simple fraction (e.g. $\sqrt{2}$ , $\pi$ )	C A number that includes a real part and an imaginary part (e.g., $3 + 4i$ ).	D A number that can be expressed as a real number multiplied by the imaginary unit (e.g., $2.5i$ )
<b>7</b> Select the description that matches a pure imaginary number <b>Pure Imaginary Number</b>		<b>8</b> Select the description that matches a rational number <b>Rational Number</b>	
A A number that cannot be expressed as a simple fraction (e.g. $\sqrt{2}$ , $\pi$ )	B A number that can be expressed as a real number multiplied by the imaginary unit	A A positive integer (1, 2, 3, ...).	B Any number that can be expressed as a fraction of two integers (e.g. $1/2$ , $-3/4$ , $5$ )
C Any number that can be expressed as a fraction of two integers (e.g. $1/2$ , $-3/4$ , $5$ )	D A non-negative integer (0, 1, 2, 3, ...).	C A number that can be expressed as a real number multiplied by the imaginary unit	D Any number that can be found on the number line, including both rational and irrational