



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

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