The Number System

Complex Numbers
ex) 6 , $4i$, $3 + 5i$

Real Numbers
ex) 5 , $\frac{3}{4}$, 0.075 , $5.\overline{6}$, $\sqrt{2}$, π
All Numbers on the (Real) Number Line

Irrational Numbers
ex) $\sqrt{2}$, $\sqrt{3}$, π , e
Non-Terminating Decimal Number
and
Non-Repeating Decimal Number

Rational Numbers
ex) 5 , $\frac{3}{4}$, $\frac{1}{3}$, 0.21 , $5.\overline{6}$
Terminating Decimal Number
or
Repeating Decimal Number

Integers
$\{ \ldots, -3, -2, -1, 0, 1, 2, 3, \ldots \}$

Whole Numbers
$\{ 0, 1, 2, 3, 4, \ldots \}$

Counting Numbers
or
Natural Numbers
$\{ 1, 2, 3, 4, \ldots \}$