## **Java Quick Reference**

Accessible methods from the Java library that may be included in the exam

Class Constructors and Methods	Explanation
	String Class
String(String str)	Constructs a new String object that represents the same sequence of characters as str
int length()	Returns the number of characters in a String object
String substring(int from, int to)	Returns the substring beginning at index from and ending at index to - 1
String substring(int from)	Returns substring(from, length())
int indexOf(String str)	Returns the index of the first occurrence of str; returns -1 if not found
boolean equals(String other)	Returns true if this is equal to other; returns false otherwise
int compareTo(String other)	Returns a value <0 if this is less than other; returns zero if this is equal to other; returns a value >0 if this is greater than other
	Integer Class
Integer(int value)	Constructs a new Integer object that represents the specified int value
Integer.MIN_VALUE	The minimum value represented by an int or Integer
Integer.MAX_VALUE	The maximum value represented by an int or Integer
int intValue()	Returns the value of this Integer as an int
	Double Class
Double(double value)	Constructs a new Double object that represents the specified double val
double doubleValue()	Returns the value of this Double as a double
	Math Class
static int abs(int x)	Returns the absolute value of an int value
static double abs(double x)	Returns the absolute value of a double value
static double pow(double base, double exponent)	Returns the value of the first parameter raised to the power of the second parameter
static double sqrt(double x)	Returns the positive square root of a double value
static double random()	Returns a double value greater than or equal to 0.0 and less than 1.0
	ArrayList Class
int size()	Returns the number of elements in the list
boolean add(E obj)	Appends obj to end of list; returns true
void add(int index, E obj)	Inserts obj at position index (0 <= index <= size), moving elements at position index and higher to the right (adds 1 to their indices) and adds 1 to size
E get(int index)	Returns the element at position index in the list
E set(int index, E obj)	Replaces the element at position index with obj; returns the element formerly at position index
E remove(int index)	Removes element from position index, moving elements at position index + 1 and higher to the left (subtracts 1 from their indices) and subtracts from size; returns the element formerly at position index
	Object Class
boolean equals(Object other)	
String toString()	