

Term	Definition
Arithmetic operators	Arithmetic operators are used to perform calculations with values.
Assignment	An assignment is the act of providing a value for a variable.
Assignment operator	The assignment operator is the equal sign (=); any value to the right of the equal sign is assigned to the variable on the left of the equal sign.
Associativity	Associativity refers to the order in which operands are used with operators.
Binary operators	Binary operators require two operands.
Blank final	A blank final is a final variable that has not yet been assigned a value.
Boolean variable	A boolean variable can hold only one of two values – true or false.
Byte	The byte data type holds very small integers, from -128 to 127.
Camel casing	Camel casing is a style in which an identifier begins with a lowercase letter and subsequent words within the identifier are capitalized.
Cast operator	A cast operator performs an explicit type conversion; it is created by placing the desired result type in parentheses before the expression to be converted.
Char	The char data type is used to hold any single character.
Comparison operator	A comparison operator is another name for a relational operator.
Concatenated	Concatenated describes values that are attached end to end.
Constant	Constant describes values that cannot be changed during the execution of an application.
Data type	An item's data type describes the type of data that can be stored there, how much memory the item occupies, and what types of operations can be performed on the data.
Double	A double data type can hold a floating-point value of up to 14 or 15 significant digits of accuracy.
Double-precision floating-point number	A double-precision floating-point number is stored in a double.

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Echoing the input	Echoing the input means to repeat the user's entry as output so the user can visually confirm the entry's accuracy.
Escape sequence	An escape sequence begins with a backslash followed by a character; the pair represents a single character.
Explicit conversion	An explicit conversion is the data type transformation caused using a cast operator.
Float	A float data type can hold a floating-point value of up to six or seven significant digits of accuracy.
Floating-point	A floating-point number contains decimal positions.
Floating-point division	Floating-point division is the operation in which two values are divided and either or both are floating-point values.
Garbage value	A garbage value is the unknown value stored in an uninitialized variable.
Implicit conversion	An implicit conversion is the automatic transformation of one data type to another.
Initialization	An initialization is an assignment made when you declare a variable.
Input dialog box	An input dialog box asks a question and provides a text field in which the user can enter a response.
Int	The data type int is used to declare variables and constants that store integers.
Integer	An integer is a whole number without decimal places.
Integer division	Integer division is the operation in which two values are divided and both are integers; the result contains no fractional part.
Keyboard buffer	The keyboard buffer is a small area of memory where keystrokes are stored before they are retrieved into a program.
Literal constant	A literal constant is a value that is taken literally at each use.
Long	The long data type holds very large integers, from -9,223,372,036,854,775,808 to
Lvalue	An lvalue is an expression that can appear on the left side of an assignment statement.

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Magic number	A magic number is a value that does not have immediate, intuitive meaning or a number that cannot be explained without additional knowledge. Unnamed constants are magic numbers.
Modulus operator	The modulus operator , sometimes abbreviated as mod, is an alternate name for the remainder operator.
Named constant	A named constant is a memory location whose value cannot change during program execution.
Null String	A null String is an empty String created by typing a set of quotes with nothing between them.
Numeric constant	A numeric constant is a number whose value is taken literally at each use.
Operand	An operand is a value used in an arithmetic statement.
Operator precedence	Operator precedence is the rules for the order in which parts of a mathematical expression are evaluated.
Parse confirm dialog box	To parse means to break into component parts. A confirm dialog box displays the options Yes,
Primitive type	A primitive type is a simple data type. Java's primitive types are byte, short, int, long, float, double, char, and boolean.
Promotion	Promotion is an implicit conversion.
Prompt	A prompt is a message that requests and describes user input.
Reference types	Reference types are complex data types that are constructed from primitive types.
Relational operator	A relational operator compares two items; an expression that contains a relational operator has a Boolean value.
Remainder operator	The remainder operator is the percent sign; when it is used with two integers, the result is an integer with the value of the remainder after division takes place.
Rvalue	An rvalue is an expression that can appear only on the right side of an assignment statement.
Scientific notation	Scientific notation is a display format that more conveniently expresses large or small numeric values; a multidigit number is converted to a single-digit number and multiplied by 10 to a power.
Scope	The scope of a data item is the area in which it is visible to a program and in which you can refer to it using its simple identifier.

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Short	The short data type holds small integers, from -32,768 to 32,767.
Showconfirmdialog()	showConfirmDialog() method in the JOptionPane class.
Showinputdialog()	The showInputDialog() method creates an input dialog box.
Significant digits	The term significant digits refers to the mathematical accuracy of a value.
Single-precision floating-point number	A single-precision floating-point number is stored in a float.
String	String is a built-in Java class that provides you with the means for storing and manipulating character strings.
Strongly typed language	A strongly typed language is one in which all variables must be declared before they can be used.
Symbolic constant final	A symbolic constant is a named constant. The keyword final precedes named constant declarations.
Token	A token is a unit of data; the Scanner class separates input into tokens.
Type casting	Type casting forces a value of one data type to be used as a value of another type.
Type-ahead buffer consume	The type-ahead buffer is the keyboard buffer. To consume an entry is to retrieve and discard it without using it.
Type-wrapper classes	Type-wrapper classes , contained in the java . lang package, include methods that can process primitive type values.
Unary cast operator	The unary cast operator is a more complete name for the cast operator that performs explicit conversions.
Unary operator standard input device	A unary operator uses only one operand. The standard input device normally is the keyboard.
Unifying type	A unifying type is a single data type to which all operands in an expression are converted.
Unnamed constant	An unnamed constant has no identifier associated with it.
Variable	A variable is a named memory location that you can use to store a value.
Variable declaration	A variable declaration is a statement that reserves a named memory location.

Note: Please see key terms in the textbooks for examples of some of the terms.