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Java Data Types

As explained in the previous chapter, a variable in Java must be a specified data type:

Example

```
int myNum = 5;           // Integer (whole number)
float myFloatNum = 5.99f; // Floating point number
char myLetter = 'D';     // Character
boolean myBool = true;   // Boolean
String myText = "Hello"; // String
```

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Data types are divided into two groups:

- Primitive data types - includes `byte`, `short`, `int`, `long`, `float`, `double`, `boolean` and `char`
- Non-primitive data types - such as `String`, `Arrays` and `Classes` (you will learn more about these in a later chapter)

Primitive Data Types

A primitive data type specifies the type of a variable and the kind of values it can hold.

There are eight primitive data types in Java:

Data Type	Description
<code>byte</code>	Stores whole numbers from -128 to 127
<code>short</code>	Stores whole numbers from -32,768 to 32,767
<code>int</code>	Stores whole numbers from -2,147,483,648 to 2,147,483,647
<code>long</code>	Stores whole numbers from -9,223,372,036,854,775,808 to 9,223,372,036,854,775,807



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digits

boolean Stores true or false values**char** Stores a single character/letter or ASCII values

Exercise ?

What is an `int` in Java?

- ☐ A data type representing integers.
- ☐ A data type representing strings.
- ☐ A data type representing decimals.

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Java Data Types

Introduction to Primitive and Non-primitive Data Types in Java

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