Textbook Chapter 2, pages 61 through 72 Questions

1. What is the name of a category of data values that are all related? Data type
2. Java is a typesafe language, which means that it requires you to be explicit about what kind of information you intend to use.
3. Java supports two different types of data. They are primitive and object.
4. Java has 8 primitive data types. List the 4 fundamental primitive data types below.

int double boolean char

1. Give an example of a literal value, also called, literals. 1
2. In the following expression, list which are the operators and which are the operands.

(4 + 5) / 3

Operators: (), /, +

Operands: 4,5,3, (4+5)

1. List the five arithmetic operators in Java: + - / \* %
2. What is the output from the statement, System.out.println((5 + 10) / 2);? 7
3. What does 34 % 3 evaluate to be? 1
4. Give 2 uses for %. Find out if a number is even and find digits of a number
5. Fill out the following Java Operator Precedence chart for the unary, multiplicative and additive operators.

|  |  |
| --- | --- |
| Description | Operators |
| Unary | ++, -- |
| Mult. | \*, /, % |
| Additive | +. - |

1. What is the output from the statement, System.out.println(25 / 2.);? 12.5
2. What is casting? Changing from one data type to another
3. What does (int) (100 / 3.0) evaluate to be? 33