

SOLUTIONS MANUAL



Java PAL, Second Edition
Chapter 2
Answers to the Exercise Questions

Exercise 2-1

- | | | | | | |
|-----------|-----|--------------------|-----|----------|-----|
| 1. my_age | Yes | this_is_a_variable | Yes | NUMBER | Yes |
| your_age | Yes | number | Yes | \$number | Yes |
| int | No | number1 | Yes | floatNum | Yes |
| 25May | No | number Six | No | Number | Yes |
2. int
double
double
String
int

Exercise 2-2

1. int itemNumber;
int numChildren;
double shoePrice;
String favMovie;
2. double triangleLeg = 3.1;
int daysInMarch = 31;
String myCatName = "Puff";
int numClasses = 4; // This answer can vary depending on the number of classes.

Exercise 2-3

1. The value of result1 is 37.
The value of result2 is 117.
The value of result3 is 2.
The value of result4 is 2.
The value of result5 is 39.
The value of result6 is 3.

Precedence and associativity affect the order in which the operations are carried out thereby affecting the result.

Exercise 2-4

1. Change the declaration to double width1 = 25.5;
2. Change the declaration to double numGallons;
3. Change the order of the two assignment statements as follows:
squareFeet = width1 * height1 + width2 * height2 * 2;
numGallons = squareFeet / 50;
4. No, both variables are not needed because the height of the walls is the same.

Make the following changes:

Delete the second height variable (height2)

Change the square feet calculation statement to the following:

```
squareFeet = width1 * height1 + width2 * height1;
```