# SOLUTIONS MANUAL



## Java PAL, Third Edition Chapter 2 Answers to the Exercise Questions

#### Exercise 2-1

1. myAge Yes	this_is_a_variable	Yes	NUMBER Yes
yourAge Yes	number	Yes	\$number Yes
float No	lnumber	No	intNum Yes
May25 Yes	number Two	No	Number Yes

2. double double String double int

#### Exercise 2-2

```
1. int productNumber;
int numPets;
double bootPrice;
String favBook;
```

```
2. double rectangleSide = 5.1;
int daysInNovember = 30;
String myDogName = "Duchess";
int numCredits = 15;
(This answer can vary depending on the number of classes.)
```

### **Exercise 2-3**

```
1. final double CAR_WASH_PRICE = 14.95;
final int DAYS_IN_NOVEMBER = 30;
final String MY_DOG_NAME = "Duchess";
final int MAX_CREDIT_HOURS = 18;
```

Exercise 2-4

 The value of answer1 is 27. The value of answer2 is 104. The value of answer3 is -1. The value of answer4 is -1. The value of answer5 is 30. The value of answer6 is 5.

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

#### Exercise 2-5

- 1. Change the declaration to double width1 = 18.5;
- 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 / 150;
- 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) \* 2;