Worksheet 2

Name: .....

Roll No: ..... Class: ..... Section: .....

Date: .....

MATHEMATICAL LIBRARY METHODS

Chapter-6

1. State whether the following statement is true or false.

(a) The Math.log ( ) method works on odd numbers only. .....

(b) The Math.sqrt (–4) method returns NaN. .....

(c) Output of Math.floor (–4.7) is 4.0 . .....

(d) The Math.ceil (–53.49) method will return –53.0. .....

(e) There are four trigonometric methods used in java. .....

(f) Math.round( ) returns the value in float data type. .....

(g) Java.Math class is used for different mathematical functions. .....

2. Fill in the blanks.

(a) The main advantage of using a method is that a method can be ..... as and when required.

(b) The math.pow (math.sqrt(4),2) method returns ..... .

(c) Math.exp ( ) method returned the ..... value of the passed arguments.

(d) The Math.abs ( ) returns the ..... value of the given argument.

(e) ..... methods are already defined in the java compiler and kept in the same classes.

(f) ..... returns the trigonometric sine of an angle.

(g) The ..... method is used to return the smallest integer value greater than the number that is provided in the argument.

3. Answer the following questions.

(a) Write the final value that is stored in c and d double a = –10.2, b = –44.1, c, d;

c = Math.abs (Math.floor (a));

d = Math.ceil (Math.abs (b));

(b) Write a java expression for the following:

$ax^5 + bx^3 + c$

(c) Differenate between Math.sqrt ( ) and Math.cbrt method?

(d) Evaluate the following expression if the value of a=4, b=1, c=2

v = a + - - c + b + + + b;

(e) Give the output of the following:

Math.sqrt (Math.max (4,25))

Class - 10

Grade: ☆ ☆ ☆ ☆ ☆

Teacher's Signature: .....