Worksheet

1

Name: ....

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

Date: ....

MATHEMATICAL LIBRARY METHODS

Chapter-7

1. Tick (✓) the correct option.

(a) What type of value is returned by Math.sqrt( )?

   (i) int   (ii) float

   (iii) double   (iv) All

(b) Name the class that is used for different Mathematical functions.

   (i) Java.Math   (ii) Java.Power

   (iii) Java.Sqrt   (iv) none of these

(c) Which of the following is false to find the square of a number?

   i) Math.pow(a,2)   (ii) a*a

   (iii) Math.sqrt(a,2)   (iv) None of these

(d) Which of the following syntax is true to find the square root of a number?

   (i) sqrt(a)   (ii) None

   (iii) Math.sqrt(a)   (iv) Squareroot(a)

(e) Give the output of Math.sqrt(x); when x = 9.0

   (i) 3   (ii) 3.0

   (iii) None of these   (iv) 3.00

(f) Which of the following does double a = Math.ceil(7.343); return?

   (i) 7.0   (ii) −7.0

   (iii) 8.0   iv) −8.0

(d) Math.log works on .... number only.

   (i) negative   (ii) wrong

   (iii) positive   (iv) Both (i) and (iii)

(e) Give the output of the Math.abs(x); when x = −9.99

   (i) 10   (ii) 0

   (iii) −9.99   (iv) 9.99

2. Write programs for the following.

(a) Write a program in Java to calculate and display the hypotenuse of a Right-Angled Triangle by taking perpendicular and base as inputs.

   Hint: $h = \sqrt{p2} + b2$

(b) In an examination, you have appeared for three subjects i.e. Physics, Chemistry, and Biology. Write a program in Java to calculate the average mark obtained and finally display the marks in rounded-off form. Take Physics, Chemistry. and Biology marks as inputs.

Grade: ★ ★ ★ ★ ★

Teacher's Signature: ....