**Worksheet– Answer Sheet**

# Single Dimension Arrays

1.

100

64

36

16

4

0

4

16

36

64

2. The following should be added to the provided code:

**int** largest = numbers[0];

**for** (i = 1; i < numbers.length; i++)

**if** (numbers[i] > largest)

largest = numbers[i];

System.out.println("The largest number is " + largest);

3.

Assuming the number of male and females is

approximately the same on each continent:

Africa has an average literacy rate of 46.60%

and an average life expectancy of 54.75 years.

Asia has an average literacy rate of 68.20%

and an average life expectancy of 64.65 years.

Europe has an average literacy rate of 97.35%

and an average life expectancy of 73.15 years.

NorthAmerica has an average literacy rate of 90.40%

and an average life expectancy of 71.65 years.

Australia&Oceana has an average literacy rate of 92.75%

and an average life expectancy of 72.6 years.

SouthAmerica has an average literacy rate of 85.85%

and an average life expectancy of 67.15 years.

Press any key to continue...

1. The following code should be added after the try-catch block in question # 3:

**long** totalArea = 0;

**double** totalPop = 0;

**int** totalGNP= 0;

**for**(i = 0; i < num; i++){

totalArea += regions[i].getArea();

totalPop += regions[i].getPopulation();

totalGNP += regions[i].getGNP();

}

**double** aveArea = (**double**)totalArea/num;

**double** avePop = (**double**)totalPop/num;

**double** aveGNP = (**double**)totalGNP/num;

System.out.println("Here are the stats for these " + num + " continents");

System.out.println();

System.out.printf("%s%.2f", "Average area in square miles " ,aveArea);

System.out.println();

System.out.printf("%s%.2f", "Average population is " ,avePop);

System.out.println();

System.out.printf("%s%.2f", "Average GNP per capita is " ,aveGNP);

System.out.println();

5. The revisions are highlighted in yellow.

Scanner console = **new** Scanner(System.in);

**int**[] nums = **new** int[10];

System.out.println("Calculate the squares of the first ten whole numbers!");

**for** (**int** i = 0; i < 10; i++){

nums[i] = i \* i;

System.out.print("Pick a whole number and access its square: ");

int wholeNumber = console.nextInt();

try{

**int** value = nums[wholeNumber];

System.out.println("The square of " + wholeNumber + " is: "

+ nums[wholeNumber]);

}catch(ArrayIndexOutOfBoundsException e){

// ArrayIndexOutOfBoundsException can simply be replaced with

// the word Exception

}

}