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1. **Application**

public class Exercise1 {

public static void main(String[] args) {

// a. The program will calculate the product of the three integers

System.out.println(“Calculate the product of three integers.”);

//b. Scanner that reads values from standard input

Scanner scanner = new Scanner(System.in);

// c. x, y, z, and result are declared as int.

int x;

int y;

int z;

int result;

// d. prompt user to input first integer

System.out.print("Enter the first integer: ");

// e. Read the first integer from the user and store it in variable x

x = scanner.nextInt();

// f. Prompt user to input second integer

System.out.print("Enter the second integer: ");

// g. Read the second integer from the user and store it in variable y

y = scanner.nextInt();

// h. Prompt the user to input third integer

System.out.print("Enter the third integer: ");

// i. Read the third integer from the user and store it in variable z

z = scanner.nextInt();

/\*j. Compute the product of three integers contained in variable x, y, and z and assign the result to the variable result. \*/

result = x \* y \* z;

// k. Display the output message.

System.out.println("Product is: " + result);

scanner.close();

}

}

1. **Evaluation**
   1. System.out.printf(“x = %d\n”, x)
      1. x = 2
   2. System.out.printf(“Value of %d + % d is %d\n”, x, x, (x + x));
      1. Value of 2 + 2 is 4
   3. System.out.printf(“x =”);
      1. x =
   4. System.out.printf(“%d = %d\n”, (x + y), (y + x))
      1. 5 = 5
2. **Multiple Choice** 
   1. **p = i + j + k + 7; // answer**
   2. System.out.println(“variables whose values are modified”);
   3. System.out.println(“a = 5”);
   4. value = input.nextInt();
3. **Multiple Choice**
   1. **y=a\*x\*x\*x+ 7; // answer**
   2. y=a\*x\*x\*(x+ 7 );
   3. y=(a\*x)\*x\*(x+ 7 );
   4. **y=(a\*x)\*x\*x+ 7; // answer**
   5. **y=a\*(x\*x\*x)+ 7;** **// answer**
   6. y=a\*x\*(x\*x+ 7 );
4. **Application**
   1. x = 7 + 3 \* 6 / 2 - 1;
      1. x = 7 + 18 / 2 - 1
      2. x = 7 + 9 - 1
      3. x = 16 - 1
      4. x = 15
   2. x = 2 % 2 + 2 \* 2 - 2 / 2;
      1. 2 % 2 + 4 - 2 / 2
      2. 2 % 2 + 4 - 1
      3. 0 + 4 - 1
      4. 4 - 1
      5. 3
   3. x = ( 3 \* 9 \*(3 + (9 \* 3 / (3))))
      1. ( 3 \* 9 \*(3 + (27 / (3))))
      2. ( 3 \* 9 \*(3 + 9)))
      3. ( 3 \* 9 \*(12)))
      4. 324