**GVSU CIS-162 - Data Types Class Activity**

1. What is the value of range?



a. 400

b. 384

c. syntax error

2. What is the value of range?

# double fuel = 12.5;  final double MPG = 32.0;

# int range = (int)(fuel \* MPG);

a. 400

b. 384

c. syntax error

# 3. What is 4 / 3 \* Math.PI \* Math.pow(r,3) if r = 4?

a. about 200

b. about 268

# 4. How would you change the expression in the previous problem if you want to do a floating-point division?

a. 4.0 / 3 \* Math.PI \* Math.pow(r,3)

b. 4 / 3.0 \* Math.PI \* Math.pow(r,3)  
c. Math.PI \* Math.pow(r,3) \* 4 / 3

# 5. What will it print if the user entered "Chicago IL" and 162?

Scanner scan = new Scanner(System.in);   
System.out.print("Which city?");   
String city = scan.next();

scan.next();   
System.out.print("How many miles?");   
int miles = scan.nextInt();   
System.out.println("Going to " + city + " will cost " + miles \* 0.25 + "dollars.");

a. Going to city will cost miles \* 0.25 dollars.

b. Going to Chicago will cost miles \* 0.25 dollars.  
c. Going to Chicago IL will cost 40.50dollars.  
d. Going to Chicago will cost 40.50dollars.

# 6. What will it print if the user entered "Chicago IL" and 162?

Scanner scan = new Scanner(System.in);   
System.out.print("Which city?");   
String city = scan.nextLine();   
System.out.print("How many miles?");   
int miles = scan.nextInt();   
System.out.println("Going to " + city + " will cost " + miles \* 0.25 + "dollars.");

a. Going to city will cost miles \* .25 dollars.

b. Going to Chicago will cost miles \* .25 dollars.  
c. Going to Chicago IL will cost 40.5dollars.

d. Going to Chicago will cost 40.5dollars.

# 7. What will it print?

# System.out.println ("The sum of 3 + 8 is: " + 3 + 8);

# System.out.println ("The sum of 3 + 8 is: " + (3 + 8));