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	C1033.	Date:	110. 11

Chapter 1 Test

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Identify the choice that best completes the statement or answers the question.

1. What is output by the code below?

System.out.println(Math.sqrt(121));

- a. 12
- b. 10
- c. 10.0
- d. 11.0
- e. 11

2. What is output by the code below?

System.out.println(Math.floor(9.1));

- **a**. 6.0
- b. 10.0
- c. 10
- d. 9.0
- e. 9

3. What is output by the code below?

System.out.println(Math.ceil(7.2));

- a. 7
- b. 7.0
- c. 8.0
- d. 9.0
- e. :

4. What is output by the code below?

System.out.println(Math.pow(6,2));

- **a.** 30.0
- **b**. 25.0
- c. 12.0
- d. 36.0
- e. 27.0

5. What is output by the code below?

System.out.println(Math.round(11.6));

- a. 13
- b. 11
- c. 8
- d. 9
- e. 12

6. What is output by the code below?

```
int x = 9,
y = 11;
int z = x + y;
double a = z;
System.out.print(a);
```

- a. 8
- **b.** 9
- c. 17
- d. 17.0
- e. 20.0

7. What is output by the code below?

System.out.printf("%.3f", 9.3317);

- a. 9.331
- **b.** 9.332
- **c**. 9.33
- d. 9.3
- e. 9.4

8. What is output by the code below?

System.out.println((int)Math.pow(Math.sqrt(40),2));

- a. 40.5
- **b.** 80
- c. 40
- d. 36.0
- e. 27

9. What is output by the code below?

System.out.println(Math.round(5.0 /2));

- **a.** 2
- **b.** 3
- c. 3.0
- d. 2.0
- e. 27

What is output by the code below?
<pre>System.out.println(Math.pow(Math.sqrt(16),2));</pre>
a. 9.0
b. 16.0
c. 32.0
d. 64.0
e. 27
What is output by the code below?
<pre>System.out.print(4 % 3);</pre>
a5
b. 1
c. 2
d. 0
e. 3
What is output by the code below?
<pre>System.out.print((double)2 / 2);</pre>
a. 1
b. 1.0
c. 2
d. 0
e. 3
What is output by the code below?
System.out.print(12.7 % 3);
a7
b3
c. 3
d. 0
e. 12
What is output by the code below?
System.out.print(3.0 / 6 + 3 * 3.5);
a. 11.0
b. 10.5
c18
c18d. 12.25

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15. What is output by the code below?

```
System.out.println( Math.max(Math.min(16,18),17) );
a. 0
b. 16
c. 17
d. 18
e. 19
```

16. What is output by the code below?

```
System.out.println( Math.min(Math.min(16,18),17) );
a. 0
b. 16
c. 17
d. 18
e. 19
```

17. Consider the method go below that should return the product of the parameters a and b.

```
public double go( double a, double b )
{
    /* blank */
}
```

Which of the following could correctly fill /* blank */ ?

```
I. return a + b;II. return a - b;III. return a * b;a. I onlyb. II only
```

- c. III onlyd. I and III only

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18. Consider the method go below that should return twice the value of a minus the value of b.

```
public double go( double a, double b )
   /* blank */
```

Which of the following could correctly fill /* blank */ ?

```
I. return a * a - b;
II. return 2 * a - b;
III. return 2 * (a - b);
   I only
```

- b. II only
- c. III only
- d. I and II only
- e. II and III only

19. Consider the method go below that should return the perimeter of rectangle. The formula for perimeter of rectangle is $:: 2 \times length + 2 \times width$

```
public double go( int len, int wid )
     blank */
```

Which of the following could correctly fill /* blank */ ?

```
I. return 2 * len * wid;
II. return 2 * (len + wid);
III. return 2 * len + 2 * wid;
```

- I only
- b. II only
- c. III only
- d. I and III only
- e. II and III only

20. Consider the class and client code below.

```
public class Aplus
 public double go( double a )
   return a * 3;
 public double fun( double b )
   return go(b) + b;
}
//client code in another class
Aplus x = new Aplus();
System.out.println(x.go(2));
  9.0
a.
b.
  3.0
c. 6.0
d. 8.0
e. 12.0
```

21. Consider the class and client code below.

```
public class Aplus
{
   public double go( double a )
   {
      return a * 3;
   }

   public double fun( double b )
   {
      return go( b ) + b;
   }
}

//client code in another class
Aplus x = new Aplus();
System.out.println( x.fun(2) );

a. 9.0
b. 3.0
c. 6.0
d. 8.0
e. 12.0
```

22. Consider the class and statements that follow.

```
public class Money
{
    private double amount;

    public Money(double am)
    {
        amount = am;
    }

    public void addQuarters(int q)
    {
        amount += q * 0.25;
    }

    public void addDimes(int d)
    {
        amount += d * 0.1;
    }

    public double getAmount()
    {
        return amount;
    }
}
```

What is the output of the code below?

```
Money m = new Money(2.1);
m.addDimes(7);
m.addQuarters(7);
m.addDimes(2);
System.out.println(m.getAmount());
```

- a. 2.1
- **b**. 2.65
- c. 5.05
- **d.** 4.75
- e. 18.1

23. When writing a method, you must always have an open and close what?

- a. parenthesis
- b. brace
- c. bracket
- d. A and B only
- e. A, B, and C

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24. How many methods does class CS contain?

```
public class CS
{
    public void one()
    {
        System.out.print("one");
    }
}
```

- a. 1
- b. 2
- **c.** 3
- d. 4
- e. 0

25. What is output by the code below?

```
public class CS
{
    public void one()
    {
        System.out.print("one");
    }
}
```

```
CS test = new CS();
test.one();
```

- a. one
- b. oneone
- c. oneoneone
- d. oneoneone
- e. oneoneoneone

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26. What is output by the code below?

```
public class CS
{
    public void one()
    {
       System.out.print("one");
    }
}
```

//code in the main of another class

```
CS test = new CS();
test.one();
test.one();
test.one();
test.one();
```

- a. one
- b. oneone
- c. oneoneone
- d. oneoneone
- e. oneoneoneone

27. What is output by the code below?

```
public class CS{
   public void one(){
      System.out.print("one");
   }
}
```

```
CS test = new CS();
test.one();
test.one();
```

- a. one
- b. oneone
- c. oneoneone
- d. oneoneoneone
- e. oneoneoneone

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28. What is output by the code below?

```
public class CS
{
    public void one()
    {
       System.out.print("one");
    }
}
```

//code in the main of another class

```
CS test = new CS();
test.one();
test.one();
test.one();
```

- a. one
- b. oneone
- c. oneoneone
- d. oneoneoneone
- e. oneoneoneone

29. What is output by the code below?

```
public class CS
{
    public void one()
    {
       System.out.print("one");
    }
}
```

```
CS test = new CS();
test.one();
test.one();
test.one();
test.one();
```

- a. one
- b. oneone
- c. oneoneone
- d. oneoneone
- e. oneoneoneone

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30. How many methods does class CS contain?

```
public class CS
  public void one()
    System.out.print("one");
   public void two()
    System.out.print("two");
}
a.
```

- 2 c.
- d. 4

31. How many methods does class CS contain?

```
public class CS
   public void one()
     System.out.print("one");
   public void two()
     System.out.print("two");
   public void go()
     two();
     one();
   }
}
   1
a.
b.
   3
```

- c. 2
- d. 4
- 5 e.

32. What is output by the code below?

```
public class CS
{
    public void one()
    {
        System.out.print("one");
    }
    public void two()
    {
        System.out.print("two");
    }
}
//code in the main of another class
CS test = new CS();
test.one();
test.two();
test.one();
```

- a. one
- b. onetwo
- c. onetwoone
- d. onetwoonetwo
- e. onetwoonetwoone

33. What is output by the code below?

```
public class CS
{
    public void one()
    {
        System.out.print("one");
    }
    public void two()
    {
        System.out.print("two");
    }
}
```

```
CS test = new CS();
test.two();
test.one();
test.two();
test.one();
```

- a. one
- b. onetwo
- c. twoonetwoone
- d. onetwoonetwo
- e. onetwoonetwoone

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34. What is output by the code below?

```
public class CS
   public void one()
     System.out.print("one");
     two();
   public void two()
     System.out.print("two");
}
//code in the main of another class
```

```
CS test = new CS();
test.one();
```

- a. one
- b. onetwo
- c. onetwoone
- d. onetwoonetwo
- e. onetwooneoneone

35. What is output by the code below?

```
public class CS
   public void one()
     System.out.print("one");
   public void two()
     System.out.print("two");
     one();
   }
}
```

```
CS test = new CS();
test.one();
test.two();
test.two();
```

- one a.
- b. onetwo
- c. onetwoone
- d. onetwoonetwo
- e. onetwoonetwoone

36. What is output by the code below?

```
public class CS
{
    public void one()
    {
        System.out.print("one");
    }
    public void two()
    {
        System.out.print("two");
        one();
    }
}
```

//code in the main of another class

```
CS test = new CS();
test.one();
test.two();
test.one();
```

- a. onetwooneone
- b. oneoneoneone
- c. twotwotwo
- d. onetwoonetwo
- e. twooneoneone

c. 2

d. 3

e. 4

37. How many methods does class Dog contain?

```
public class Dog
{
    public void barkOnce()
    {
        System.out.print("woof");
    }

    public void barkTwice()
    {
        barkOnce();
        barkOnce();
    }
}

a. 0
b. 1
```

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38. Consider the class and statements that follow.

```
public class Dog
   public void barkOnce()
     System.out.print("woof");
   public void barkTwice()
     barkOnce();
     barkOnce();
   }
}
Given the declaration below, which of the following are valid statements?
Dog d = new Dog();
I.
```

d.barkOnce();

II. d.barkTwice();

System.out.println(d.barkTwice());

- a. I only
- b. II only
- III only c.
- d. I and II only
- II and III only

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39. Consider the class and statements that follow.

```
public class Dog
   private void barkOnce()
     System.out.print("woof");
   public void barkTwice()
     barkOnce();
     barkOnce();
   }
}
Given the declaration below, which of the following are valid statements?
Dog d = new Dog();
d.barkOnce();
```

I.

II. d.barkTwice();

System.out.println(d.barkTwice());

- a. I only
- b. II only
- III only c.
- d. I and II only
- none of the these statements are valid

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40. Consider the class and statements that follow.

```
public class Dog
   private void barkOnce()
    System.out.print("woof");
   private void barkTwice()
    barkOnce();
    barkOnce();
}
Dog d = new Dog();
```

Given the declaration below, which of the following are valid statements?

```
I.
d.barkOnce();
II.
d.barkTwice();
System.out.println( d.barkTwice() );
```

- a. I only
- b. II only
- III only c.
- d. I and II only
- none of the these statements are valid