Name:		Class:	Date:
Chap	ter	1 Review	
Multip <i>Identify</i>		C hoice e choice that best completes the statement or an	nswers the question.
	1.	What is output by the code below?	
		System.out.println(Math.sqr	t(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.flc	or(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.pow	(6,2));
		a. 30.0b. 25.0c. 12.0	

d. 36.0e. 27.0

ID: A

4. 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

5. 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

___ 6. What is output by the code below?

```
System.out.println( 7 / 0);
```

- **a.** 0
- b. 7
- c. 0.7
- d. 27
- e. There is no output due to a runtime error.

7. What is output by the code below?

int
$$x = 15$$
;
 $x = x % 5$;
System.out.print(x);

- **a.** 0
- b. 1
- c. 2
- **d**. 3
- e. 5

8. What is output by the code below?

System.out.print((double)2 / 2);

- a. 1
- b. 1.0
- c. 2
- **d.** 0
- e. 3

9. What is output by the code below?

System.out.print(3.0 / 6 + 3 * 3.5);

- a. 11.0
- b. 10.5
- c. .18
- d. 12.25
- e. 1.17

____ 10. What is output by the code below?

System.out.println(Math.floor(-6.7));

- a. -6.0
- b. -7.0
- c. -8.0
- d. -9.0
- e. -27.0

____ 11. 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

ID: A

12. Consider the method go below that should return the sum 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 only
b. II only
c. III only
d. I and III only
```

e. II and III only

13. 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 only
b. II only
c. III only
d. I and III only
e. II and III only
```

ID: A

___ 14. Consider the method go below that should return the perimeter of rectangle. The formula for perimeter of rectangle is :: 2 x length + 2 x 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;

a. I only
b. II only
c. III only
d. I and III only
e. II and III only
```

15. 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(3) );

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

ID: A

____ 16. 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
```

17. 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

18. What is a method?

- a. a tool that helps organize a program
- b. a tool that complicates a program
- c. a tool that makes a program longer
- d. a tool that makes a program harder to read
- e. a tool that makes a program more disorganized

ID: A

19. 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

20. 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

21. 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();
```

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

ID: A

22. 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. oneoneoneone
e. oneoneoneoneone
```

____ 23. 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();

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

Name: ______ ID: A

24. 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();
test.one();
a. one
b. oneone
c. oneoneone
d. oneoneone
e. oneoneoneone
```

ID: A

____ 25. 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();
}
a. 1
b. 3
c. 2
```

- d. 4
- e. 5

Name: ______ ID: A

____ 26. 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.two();
test.one();
test.two();
test.one();
a. one
b. onetwo
c. twoonetwoone
d. onetwoonetwo
e. onetwoonetwoone
```

Name: ______ ID: A

____ 27. 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.two();
a. one
b. onetwo
c. onetwoone
d. onetwoonetwo
```

e. onetwoonetwoone

Name: _____

d. 3e. 4

ID: A

28. 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
c. 2
```

Name:	
-------	--

e. II and III only

ID: A

29. 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();
III.
System.out.println( d.barkTwice() );
a. I only
b. II only
c. III only
d. I and II only
```

ID: A

30. Consider the class and statements that follow.

```
public class Dog
   private void barkOnce()
     System.out.print("woof");
   private 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();
III.
System.out.println( d.barkTwice() );
a. I only
```

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