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## **Practice Test 2**

a. passing.b. duplicating.

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

32		1		1
1	. A <sub>1</sub>	problem-solving approach that breaks tasks	into	smaller subtasks is called
	a.	bottom-up development.	c.	top-down development.
	b.	task division development.	d.	procedural development.
2	. Aı	method is executed when it is		
	a.	typed.	c.	declared.
	b.	called.	d.	named.
3	. Wł	nich best describes top-down development?		
	a.	A project leader assigning tasks to team n	nemb	ers.
	b.	Assembling a program using reusable cod		ly.
	c.	Documenting a convoluted block of code.		
	d.	Breaking tasks down into subtasks when o	devel	oping software.
4	. Wł	nich keyword is an access modifier?		
	a.	static	c.	public
	b.	void	d.	call
5	. Wł	-	nes if	the method can be called by other methods?
	a.	the access modifier	c.	$\mathcal{E}$
	b.	the access level	d.	the postcondition
6	6. Wł	nich keyword indicates a method will not re	turn a	
	a.		c.	public
	b.		d.	call
7	. Wł	nich statement calls the method inches To	Cent	cimeters()?
	a.	call inchesToCentimeters;		
		<pre>inchesToCentimeters(call);</pre>		
	c.	<pre>inchesToCentimeters();</pre>		
_	d.	<pre>execute inchesToCentimeters();</pre>		
8	G. Gi	ven the following code segment:		
	กเเ	blic static void prob(int x, int	77)	{
	P a.	System.out.print(x + " ");	· <u>y</u> /	
		if (x <= y) {		
		System.out.println( $x + y$ );		
	}	}		
	J			
	Wł	nich will be displayed when prob(6, 7)	is ca	lled?
	a.	6 7	c.	x + 7
	b.	x + 6	d.	6 13

9. When more than one method of the same name is included in a class, it is referred to as method

c. overloading.d. voiding.

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10. Given the following application:

```
public class Calculation {
  public static int lineLength(int x, int y) {
    int length;
    length = x * y;
    return length;
  }
  public static int lineLength(int x) {
    int length;
    length = x * x;
    return length;
  }
  public static void main(String[] args) {
     System.out.println(lineLength(5));
  }
}
```

Which will be displayed when the application is run?

**a.** 5

**c.** 25

b. 10

d. A syntax error will be generated.

11. Given the following application:

```
public class Comparison {

public static double maxNum(int num1, int num2) {
   if (num1 > num2) {
      return num1;
   } else {
      return (num2);
   }

}

public static double maxNum(int value1, int value2) {
   if (value1 > value2) {
      return value1;
   } else {
      return (value2);
   }

public static void main(String[] args) {
   System.out.println(maxNum(1, 2));
   }
}
```

Which will be displayed when the application is run?

a.

c. 2.0

b. 2

d. A syntax error will be generated.

12. Given the following code segment:

```
public static int prob2(int x, int y) {
   int j;
   j = y + 2;
   j += x * 2;
   return(j);
public static void main(String[] args) {
   int j = 6, k = 4;
   j = prob2(j, k);
   System.out.println(j);
```

Which will be displayed after the code executes?

```
12
```

24 c.

18

d. A syntax error will be generated.

13. Which is used to enclose documentation comments for a method?

14. Which is true about objects?

- I. Objects can store data.
- II. Objects can perform actions.
- III. Objects can provide communication.

I only a.

II and II only c.

I and II only

d. I, II, and III

15. Which is a data type that defines variables for the state of an object and methods for an object's behavior?

String a.

encapsulation

class b.

d. int

16. Which refers to the data an object stores?

a. behavior c. instance

b. state

encapsulation d.

17. Protecting an object's data is called

inheritance. a.

object casting. c.

object security.

encapsulation.

18. Which is included in a class declaration?

I. access level

II. keyword class

III. class name

IV. class body

I and II only

II, III, and IV only

I, II, and III only

III and IV only

Name	:			
	19.	Which is included in a class body?		
		<ul><li>I. methods</li><li>II. variables</li><li>III. constructors</li></ul>		
		<ul><li>a. I only</li><li>b. I and III only</li></ul>	c. d.	II and III only I, II, and III
	20.	The visibility of a member variable is co	ontrolled wit	
		a. behavior.	c.	access modifier.
		b. constructor.	d.	instance variable.
	21.	The methods in a class can be		
		<ul><li>I. accessor methods</li><li>II. modifier methods</li><li>III. helper methods</li></ul>		
		a. I only	c.	I and III only
		b. I and II only	d.	I, II, and III
	22.	Which keyword is used to declare a class	ss variable?	
		a. private	c.	static
		b. public	d.	void
	23.	Which statements are true?		
		<ul><li>Instance variables are creat</li><li>II. Instance methods can only</li><li>III. Class methods can be called</li><li>IV. Instance variables are creat</li></ul>	be called fro d from the cl	m the class itself.
		a. I only	c.	I, III, and IV only
		b. II and III only	d.	I, II, III, and IV
	24.	<ul> <li>When a subclass redefines a superclass</li> <li>a. overrides the superclass method.</li> <li>b. inherits the superclass method.</li> <li>c. encapsulates the superclass method.</li> <li>d. casts the superclass method.</li> </ul>		subclass method
	25.	Which will be generated if an Object va	riable is cast	t with an incompatible class?
	•	a. a syntax error	c.	InputMismatchException
		b. a logic error	d.	ClassCastException
	26.	Which describes an application that use	•	ts that are separately written and maintained?

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d. inherited

b. modular

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```
public class Moo {
          private int i;
          public Moo {
          i = 100;
          public void setI(int j) {
          i = j;
          public int getI() {
           return(i);
          public int calculate() {
           i = i * factor();
           return(i);
          private int factor() {
           return(1.2);
    }
27. Which is the name of the class?
    a. Moo
                                            c. factor
    b. calculate
                                                public
28. Which is the name of the data member?
                                            c. Moo
    a. i
                                               factor
    b. j
29. Which is the modifier member?
    a. calculate()
                                            c. getI()
    b. factor()
                                            d. setI()
30. Which is the helper member?
    a. calculate()
                                                getI()
                                            c.
    b. factor()
                                            d. setI()
31. Which is the name of the constructor?
    a. calculate
                                                getI()
                                            c.
    b. factor
                                            d. Moo
    public class Roo {
          private double i;
          private static int j;
          private static final int k;
32. Which data member is an instance member?
    a. i
                                                k
                                            c.
    b. j
                                            d. Roo
```

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 33.	Which data members are class members?				
	a.	i and j only	c.	i and k only	
	b.	j and k only	d.	i, j, and k only	
 34.	Wł	nich allows a class to define a specialized typ	pe of	an already existing class?	
	a.	polymorphism	c.	encapsulation	
	b.	inheritance	d.	reusability	
35.	Cla	asses that are derived from existing classes d	lemo	nstrate a(n)	
	a.	has-a relationship.	c.	derived-a relationship.	
	b.	is-a relationship.	d.	was-a relationship.	
 36.	Wł	nich keyword is included in the class declara	tion	when a class inherits another class?	
	a.	static	c.	extends	
	b.	interface	d.	super	
 37.	Wł	nich keyword is used to access methods of the	ne ba	se class?	
	a.	static	c.	extends	
	b.	interface	d.	super	
	Given the following code segment:				
	pul	blic class Box extends Square {   private double sides;			
38.	Wł	nich is the base class?			
	a.	Square	c.	sides	
	b.	Box	d.	extends	
39.	Which keyword is used to declare an abstract class?				
	a.	abstract	c.	static	
	b.	extends	d.	super	
 40.	Но	w many methods does the Comparable inter	face	contain?	
	a.	0	c.	5	
	b.	1	d.	8	