Preparation QUIZ & TEST (Chapter 4)		4.10 What is Math.ceil(3.6)? A. 3.0 B. 3 C. 4.0 D. 5.0			
[Chap. 4.2]					
4.1 To obtain the sine o	of 35 degrees, use	4.11 What is Math.floor(3.6)? A. 3.0 B. 3 C. 4 D. 5.0			
A. Math.sin(35)					
B. Math.sin(Math.toRad	lians(35))				
C. Math.sin(Math.toDeg		4.12 Which of the following is correct to obtain			
D. Math.sin(Math.toRac	` ''	the min of x, y, z? Please select all that apply.			
E. Math.sin(Math.toDeg	ree(35))	A. Math.min(x, Math.min(y, z))			
		B. Math.min(Math.min(x, y), z) C. Math.min(Math.min(y, z), x)			
4.2 To obtain the arc si	ne of 0.5, use	D. Math.min(z, Math.min(x, y))			
A. Math.asin(0.5)		, , , , , , , , , , , , , , , , , , ,			
B. Math.asin(Math.toDe	egrees(0.5))				
C. Math.sin(Math.toRad	lians(0.5))	4.13 Which of the following is correct to obtain			
D. Math.sin(0.5)		a random integer between 5 and 10?			
		A. 5 + Math.random() * 6 B. 5 + (int)(Math.random() * 6)			
4.3 Math.asin(0.5) retur	ns .	C. 5 + Math.random() * 5			
A. 30	B. Math.toRadians(30)	D. 5 + (int)(Math.random() * 5)			
C. Math.PI / 4	D. Math.PI / 2				
		[Chap. 4.3]			
4.4 Math.sin(Math.PI) re	eturns	4.14 Which of the following is the correct			
A. 0.0 B. 1.0 C. 0.5 D. 0.4		expression of character 4?			
		A. 4 B. "4" C. '\0004' D. '4'			
4.5 Math.cos(Math.PI) r					
A. 0.0 B. 1.0 C1.0 D. 0.5		4.15 A Java character is stored in			
		A. one byte B. two bytes C. three bytes D. four bytes			
4.6 Which of the follow	ing is correct to obtain	C. three bytes D. four bytes			
	ease select all that apply.				
A. Math.sqrt(5)	B. Math.sqrt(25)	4.16 The Unicode of 'a' is 97. What is the			
C. Math.pow(5, 0.5)	D. Math.pow(5, 2)	Unicode for 'c'?			
		A. 96 B. 97 C. 98 D. 99			
4.7 What is Math.rint(3.	6)?				
A. 3.0 B. 3 C. 4.0	D. 5.0	4.17 Which of the following statements prints			
4.9. \\/\batic \\/\attacks	1/2 6/2	smith\exam1\test.txt?			
4.8 What is Math.round(3.6)? A. 3.0 B. 3 C. 4 D. 4.0		A. System.out.println("smith\exam1\test.txt"); B. System.out.println("smith\exam1\test.txt");			
л. э.о в. э С. 4	D. 4.0	B. System.out.println("smith\\exam1\\test.txt");C. System.out.println("smith\"exam1\"test.txt");			
4.9 What is Math.rint(3.	5)?	D. System.out.println("smith"\exam1"\test.txt");			
A. 3.0 B. 3 C. 4	D. 4.0 E. 5.0				

4.18 Suppose x is a char variable with a value 'b'. What is the output of the statement System.out.println(++x)? A. a B. b C. c D. d		 4.26 Which of the following is not a correct method in the Character class? Please select all that apply. A. isLetterOrDigit(char) B. isLetter(char) C. isDigit() D. toLowerCase(char) E. toUpperCase() 			
• •	int type variable. Which of				
•	ents display the character				
whose Unicode is sto		[Chap. 4.4] 4.27 Suppose s is a string with the value "java".			
A. System.out.println B. System.out.println		What will be assigned to x if you execute the			
C. System.out.println D. System.out.println	n((int)i);	following code			
2. System out.pm.		char x = s.charAt(4);			
4.20 Will System.out	.println((char)4) display 4?	A. 'a'	B. 'v'		
A. Yes B. No		C. Nothing will be assigned to x, because the execution causes the runtime error StringIndexOutofBoundsException			
4.21 What is the out	put of System.out.println('z'				
- 'a')?		•	4.28 The expression "Java " + 1 + 2 + 3		
A. 25 B. 26 C. a	D. z	evaluates to _			
		A. Java123			
422 4 1 1 1	l II DI	D. Java 123	E. Illegal expression		
select all that apply.	can hold Please				
	20.0 D. "x" E. "120"	4.29 Note tha	t the Unicode for character A is		
		•	sion "A" + 1 evaluates to		
		A. 66	В. В		
4.23 Which of the fo	llowing assignment	C. A1	D. Illegal expression		
statements is correct apply.	? Please select all that				
A. char $c = 'd'$;	B. char $c = 100$;	4.30 Note that the Unicode for character A i			
C. char c = "d";	D. char c = "100";	65. The expres	sion 'A' + 1 evaluates to		
		A. 66	В. В		
		C. A1	D. Illegal expression		
4.24 '3' - '2' + 'm' / 'ı	n' is				
A. 0 B. 1 C. 2	D. 3				
			4.31 Which of the following is the correct		
		statement to return JAVA?			
4.25 To check whether a char variable ch is an		A. toUpperCase("Java")			
uppercase letter, you		•	B. "Java".toUpperCase("Java")		
A. (ch >= 'A' && ch		•	C. "Java".toUpperCase()		
B. (ch >= 'A' && ch		D. String.toUp	pperCase("Java")		
C. (ch >= 'A' ch <=	= 'Z')				

D. ('A' <= ch <= 'Z')

 4.32 Suppose s1 and s2 are two strings. Which of the following statements or expressions is incorrect? Please select all that apply. A. String s3 = s1 - s2; 			4.39 To check if a string s contains the prefix "Java", you may write Please select all that apply.						
						A. if (s.starts)	With("Java"))		
						B. boolean b	= s1.com	npareTo(s2);
			C. char $c = s^2$		•	,		ring(0, 4).equals(".	
D. char $c = s^2$		s1.lenath	n()):		(0) == 'J' && s.char				
					'v' && s.charAt(3) =				
4.33 Suppose	e s1 and s	s2 are tw	o strings. What is						
the result of t	he follow	ing code	e?	4.40 To check if a string s contains the suffix					
				"Java", you m	nay write	Please select			
s1.equals(s2) == s2.equals(s1)			all that apply	•					
				A. if (s.endsV	Vith("Java"))				
A. true	B. fals	e		B. if (s.lastInd	dexOf("Java") >=	0)			
				C. if (s.substring(s.length() - 4).equals("Java"))					
				D. if (s.subst	ring(s.length() - 5)).equals("Java"))			
4.34 "abc".co	mpareTo	("aba") r	eturns	E. if (s.charAt(s.length() - 4) == 'J' && s.charAt(s.length() - 3) == 'a'					
	C1				-	At(s.length() - 1) == 'a')			
				4.41 The	mathad na	arcas a string s to			
4.35 "AbA".co	ompareTo	oIgnoreC	Case("abC")		method pa	arses a suring s to			
returns	·			an int value.	I +/ -) .				
A. 1 B. 2	C1	D2	E. 0	A. integer.pa					
				B. Integer.pa					
					rseInteger(s);				
4.36		return	s true. Please	D. Integer.pa	arseInteger(s);				
select all that		_							
A. "peter".co		IanoreCa	se("Peter")						
B. "peter".coi		_		4.42 The method parses a string s to a double value.					
C. "peter".eq	•	_							
D. "peter".eq	_			A. double.pa	rseDouble(s);				
E. "peter".equ	_		octor j	B. Double.pa	arsedouble(s);				
L. peter .eqt	uais(pete	=1 <i>)</i>		C. double.parse(s);					
				D. Double.pa	arseDouble(s);				
4.37 What is			of						
"SELECT".subs	_			[Chap. 4.6]					
A. "SELECT" B. "SELEC"			-	of the following is	an invalid				
C. "SELE" D. "ELECT"			the printf stateme						
				A. %4c	B. %10b	C. %6d			
						C. 700d			
4.38 What is	the retur	n value c	of	D. %8.2d	E. %10.2e				
"SELECT".subs	string(4, 4	4)?							
A. an empty	string	B. C		444 = 1		-tttf/110/ 2 4 fil			
C. T		D. E			tement System.ou	it.printf("%3.1f",			
					outs				
				A. 123.4	B. 123.5				
				C. 1234.5	D. 1234.56	E. 1234.6			

4.45 The state	ment System.oi	ut.printf("%3.1e",
1234.56) outpu	ts	
A. 0.1e+04	B. 0.123456e-	+04
C. 0.123e+04	D. 1.2e+03	E. 1.23+03
4.46 The state	ment System.o	ut.printf("%5d",
123456) outpu		•
A. 12345	B. 23456	
C. 123456	D. 12345.6	
4.47 The state	ment System.o	ut.printf("%10s",
123456) outpu	ts (f	Note: * represents
a space)		
A. 123456****	B. 23	456****
C. 12345****		**123456
4 40 4 1 .1		1

4.48 Analyze the following code:

int i = 3434; double d = 3434; System.out.printf("%5.1f %5.1f", i, d);

A. The code compiles and runs fine to display 3434.0 3434.0.

B. The code compiles and runs fine to display 3434 3434.0.

C. i is an integer, but the format specifier %5.1f specifies a format for double value. The code has an error.