## Big Java Chapter 4 Test

Due Oct 11 at 11:59pm Points 35 Questions 35	Available until Oct 11 at 11:59pm	Time Limit None	Allowed Attempts 3
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## Instructions

This quiz is designed to accompany the reading of the text and is therefore open text, browser, neighbor etc. You have three attempts; the best grade will automatically be recorded (no reason to NOT receive a perfect score) and trends for incorrect answers will provide substance for discussion as chapter is finalized.

Take the Quiz Again

Attempt History

	Attempt	Time	Score
LATEST	Attempt 1	21 minutes	28 out of 35

Score for this attempt: **28** out of 35 Submitted Oct 8 at 12:47pm This attempt took 21 minutes.

	Question 1	1 / 1 pts
	Which of the following options declares a float variable?	
	○ Float age;	
	O flt age;	
orrect!	• [float age;]	
	o age: float;	

	Question 2	1 / 1 pts
	Which of the following guidelines will make code more explanatory for others?	
	Use more statements in source code.	
Correct!	Add comments to source code.	
	Avoid usage of complex calculations in source code.	
	Always enclose the statements in curly braces in source code.	

```
Question 3

What are the values of num1 and num2 after this snippet executes?

double num1 = 4.20;
double num2 = num1 * 10 + 5.0;

num1 = 4.20 and num2 = 42.0
```

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Correct!		
	num1 = 42.0 and num2 = 42.0	
	num1 = 42.0 and num2 = 47.0	
	Question 4	1 / 1 pts
	What is the value of Math.pow(3, 2)?	
	○ 6.0	
Correct!	<ul><li>9.0</li></ul>	
	○ 8.0 ————————————————————————————————————	
	O 5.0	
	Question 5	1 / 1 pts
	Which operator is used to concatenate two or more strings?	
Correct!	• +	
	○ &	
	Question 6	1 / 1 pts
	How do you compute the length of the string str?	
	○ [length(str)]	
	○ length.str	
0	Str.length	
Correct!	• str.length()	
	Question 7	1 / 1 pts
	Which one of the following statements gives the absolute value of the floating-point number $x = -25.50$ ?	

 abs(x); Correct! Math.abs(x); x.abs(); x.absolute(); 0 / 1 pts **Question 8** Which of the methods below are static methods? I. length II. substring III. pow IV. sqrt You Answered All the methods are static Only I, II and III Only II and IV Correct Answer Only III and IV 1 / 1 pts Question 9 What is the value of Math.abs(-2)? \_ -2 0 Correct! 2 4 1 / 1 pts **Question 10** What is the output of the following code snippet? public static void main(String[] args) double x; x = Math.pow(3.0, 2.0) + Math.pow(4.0, 2.0);System.out.println(x); Correct! 25.0 34

O 7.0			
O 14			

Question 11	1 / 1 pts
Which of the given statements generates the following output?	
\\\"///	
<pre>System.out.println("\\\"//");</pre>	
• System.out.println("\\\\"//");	
<pre>System.out.println("\\\\""////");</pre>	
<pre>System.out.println("\\\"//");</pre>	
	Which of the given statements generates the following output?   \\"///    System.out.println("\\\\"//");    System.out.println("\\\\"");    System.out.println("\\\\"");

Correct!

Which one of the following statements can be used to extract the last 10 characters from the string variable str?

str.substring(str.length() - 10, str.length())

str.substring(10, str.length())

str.substring(str.length() - 9, 10)

str.substring(0, 10)

```
Which one of the following statements can be used to get the fifth character from a string str?

Char c = str.charAt(5);

Char c = str.charAt(4);

Char c = str[5];

Char c = str[4];
```

Question 14 0 / 1 pts

	Which one of the following statements displays the output as (1.23e+02)?
Correct Answer	O System.out.printf("%(5.2e", -123.0);
	System.out.printf("%5.2e", -123.0);
	O System.out.printf("^5.2e", -123.0);
You Answered	System.out.printf("%5.2E", -123.0);
L	

	Question 15	1 / 1 pts
	One way to avoid round-off errors is to use:	
	<pre>Math.sqrt()</pre>	
	○ Math.pow()	
Correct!	Math.round()	
	<pre>Math.truncate()</pre>	

```
Question 16

What does the following statement sequence print?

String str = "Harry";
int n = str.length();
String mystery = str.substring(0, 1) + str.substring(n - 2, n);
System.out.println(mystery);

Ha

Ha

Hy

Hy
```

```
Question 17

What does the following statement sequence print if the user input is 123?

public static void main(String[] args)
{
    Scanner in = new Scanner(System.in);
    System.out.print("Enter a number ");
    int myInt = in.nextInt();
    myInt += 456;
```

Correct!

	Digital composition of the control o
	<pre>System.out.println(myInt); }</pre>
Correct!	⊙ 579
	○ Compile-time error
	○ Run-time error
	O 123456

```
0 / 1 pts
                Question 18
                What does the following statement sequence print if the user input is 123?
                 public static void main(String[] args)
                     Scanner in = new Scanner(System.in);
                     System.out.print("Enter a number: ");
                     String str = in.next();
                     str += 456;
                     System.out.println(str);
                 }
                    O 579
You Answered

    Compile-time error

    Run-time error

Correct Answer
                    O 123456
```

```
What is the output of the following statement sequence?

| public static void main(String[] args) {
| int x = 100.0 % 6.0;
| System.out.println(x);
| }

| You Answered | Correct Answer | Compile-time error |
| Run-time error |
| 16
```

```
Question 20 1/1 pts

Which statement about number literals in Java is false?
```

	nt size = 42;	
Wh	nat is wrong with the following code snippet?	
Qı	uestion 24	1/1
	Invoke them using the variable name and the dot (.) notation.	
	There are no methods available in Java for string variables.	
	For each method there is a special operator that must be used.	
Wh	nat is the correct way to invoke methods on variables in Java that are strings?  Methods can only be invoked on string constants, not on variables.	
	uestion 23	1/1
	To write Java code that can be executed and tested	
	To do examples by hand that confirm the solution will work	
	To understand the problem and its inputs and outputs	
	To write the expression that calculates the answer	
Th	e first step in problem solving is	
Qı	uestion 22	1/1
	makes it illegal to write a statement like sum = sum + 4;	
	means the same as the equals sign used in algebra	
	places a new value into a variable	
	O denotes mathematical equality	
Th	e assignment operator	
Qı	uestion 21	1/1
	At integer with fractional part of .5 has type accuracy.	
	An integer with fractional part of .0 has type double.	
	Integers must be positive	
	Zero is an integer	
	Numbers in exponential notation always have type double	

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	<pre>System.out.println("size = " + size); System.out.println(" cost = " + cost);</pre>	
	The code snippet uses a variable that has not yet been initialized.	
Correct!	The code snippet uses a variable that has not been declared.	
	The code snippet attempts to assign a decimal value to an integer variable.	
	The code snippet attempts to assign an integer value to a decimal variable.	
	Question 25	1 / 1 pts
	Which one of the following is an assignment statement?	
	$\bigcirc \text{ int } \alpha = 20;$	
Correct!	<ul><li> a = 20;</li></ul>	
	$\bigcirc$ assign $a = 20$ ;	
	O assign 20 to a;	
	Question 26	1 / 1 pts
	What is the meaning of $x = 0$ ; in Java?	
	○ It checks whether x equals 0.	
Correct!	It sets the variable x to zero.	
	It defines a variable named x and initializes it with 0.	
	It is a syntax error because x is not always 0.	
	Question 27	1 / 1 pts
	What is the value of Math.pow(2, 3)?	
	O 5.0	
	O 6.0	
Correct!	● 8.0	
	O 9.0	

1 / 1 pts Question 28 Which one of the following is a correct representation of the given mathematical expression in Java?

Correct!

Correct!

Correct!

$\frac{a-\frac{b}{2}}{2}$		
a - b / 2 % 2		
○ a - b / 2		
a - (b / 2) / 2		

 Question 29
 1/1 pts

 Which of the following is the mathematical equivalent of the following Java expression?

 h = (4.0 \* a \* b - Math.pow(b, 2)) / c;

 h = 4ab - 2b / c

 h = (4ab - b2) / c

 • h = (4ab - b2) / c

What will be printed by the statement below?

System.out.print("0\"my\t\\\"no!");

O"myt\\\"no!

O\ my\t\\\ no!

O'my\t\\\ no!

Assume the following variable has been declared and given values as shown:

String name = "Mamey, Jean";

Which statement will print the name as "Jean Mamey"?

System.out.print(name.substring(7) + " " + name.substring(0, 5));

System.out.print(name.substring(8, 4) + " " + name.substring(1, 5));

<pre>System.out.print(name.substring(2) + " " + name.substring(1));</pre>

	Question 32	0 / 1 pts
	What is the value of the following expression?	
	1 % 12	
Correct Answer	$\bigcirc$ 1	
	O -11	
You Answered	This is an error because 12 is greater than 1	

	Question 33	1 / 1 pts
	Assume the following variables have been declared and given values as shown:	
	String str = "0123456789"; String sub = str.substring(3, 4);	
	Which is the value of sub?	
Correct!	• 3	
	○ 34	
	○ 345	
	○ 3456	

	Question 34	0 / 1 pts
	Assume the following variable has been declared and given a value as shown:	
	String str = "0123456789";	
	Which is the value of <a href="mailto:str.length">str.length</a> )?	
Correct Answer	0 9	
You Answered	<ul><li>10</li></ul>	
	011	
	$\bigcirc$ 12	

	Question 35 0 / 1 pts
	Assume the variable str has been declared to be a String that has at least one character. Which is the following represents the last character in str?
You Answered	<pre>str.charAt(str.length())</pre>
	O str.lastChar()
Correct Answer	Ostr.charAt(str.length() - 1)
	<pre>Str.substring(str.length())</pre>

Quiz Score: 28 out of 35