

Review Questions

	a. constant
	b. variable
	c. volatile
	d. mutable
2.	Which of the following is not a primitive data type in Java?
	a. boolean
	b. byte
	c. int
	d. sector
3.	Which of the following elements is not required in a variable declaration?
	a. a type
	b. an identifier
	c. an assigned value
	d. a semicolon
4.	The assignment operator in Java is
	a. =
	b. ==
	c. :=
	d. ::
5.	Assuming you have declared shoeSize to be a variable of type int, which of
	the following is a valid assignment statement in Java?

1. When data cannot be changed after a class is compiled, the data is ______.

	<pre>a. shoeSize = 9;</pre>
	<pre>b. shoeSize = 9.5;</pre>
	<pre>c. shoeSize = '9';</pre>
	<pre>d. shoeSize = "nine";</pre>
	For 9.5 to be assigned, the variable would have to be a double or float. '9' could
	be stored in a char variable. "nine" would be stored in a String.
6.	Which of the following data types can store a value in the least amount of memory?
	a. short
	b. long
	c. int
	d. byte
7.	The modulus operator
	a. is represented by a forward slash
	b. provides the remainder of integer division
	c. provides the quotient of integer division
	d. Answers b and c are correct.
8.	According to the rules of operator precedence, when division occurs in the same
	arithmetic statement as, the division operation always takes place
	first.
	a. multiplication
	b. modulus
	c. subtraction
	d. Answers a and b are correct.
9.	A Boolean variable can hold

	a.	any character
	b.	any whole number
	c.	any decimal number
	d.	the values true or false
10.	Th	e "equal to" comparison operator is
	a.	=
	b.	==
	c.	!=
	d.	!!
	Th	e single equal sign is used for assignment in Java, not comparison.
11.	Th	e value 137.68 can be held by a variable of type
	a.	int
	b.	float
	c.	double
	d.	Two of the preceding answers are correct.
	Th	e two correct answers are b and c. An int can hold only a whole number.
12.	Wl	nen you perform arithmetic with values of diverse types, Java
	a.	issues an error message
	b.	implicitly converts the values to a unifying type
	c.	requires you to explicitly convert the values to a unifying type
	d.	requires you to perform a cast
13.	If y	you attempt to add a float, an int, and a byte, the result will be a(n)
	a.	float

b. int
c. byte
d. error message
14. You use a to explicitly override an implicit type.
a. mistake
b. type cast
c. format
d. type set
15. In Java, what is the value of $3 + 7 * 4 + 2$?
a. 21
b. 33
c. 42
d. 48
Because multiplication is performed before addition, 7 * 4 is calculated first,
Because multiplication is performed before addition, 7 * 4 is calculated first, resulting in 28. Then 3 is added giving 31. Finally 2 is added, giving 33.
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resulting in 28. Then 3 is added giving 31. Finally 2 is added, giving 33. 16. Which assignment is correct in Java? a. int value = (float) 4.5; b. float value = 4 (double); c. double value = 2.12;
resulting in 28. Then 3 is added giving 31. Finally 2 is added, giving 33. 16. Which assignment is correct in Java? a. int value = (float) 4.5; b. float value = 4 (double); c. double value = 2.12; d. char value = 5c;
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d. all of the above

In a, the integer 12 is promoted to a double for assignment. The value 12.0 is a double by default. In c, the d is not necessary, but can be used; if the variable was a float, you would use 12.0f.

18. Which assignment is correct in Java?

```
a. char aChar = 5;
b. char aChar = "W";
c. char aChar = '*';
```

d. Two of the preceding answers are correct.

Neither the int in a nor the String in b can be assigned to the char variable.

- 19. An escape sequence always begins with a(n) ______
 - a. e
 - b. forward slash
 - c. backslash
 - d. equal sign
- 20. Which Java statement produces the following output?

```
w
xyz
a. System.out.println("wxyz");
b. System.out.println("w" + "xyz");
c. System.out.println("w\nxyz");
d. System.out.println("w\nx\ny\nz");
```

In a and b, the four letters are all output in one line. In d, each of the four letters occuies its own line.