## AP using Java Multiple Choice Practice Unit 1 Java Simple Data Types

This test includes program segments, which are not complete programs. Answer such questions with the assumption that the program segment is part of a correct program.

- 01. Which of the following are Java program keyword categories?
  - (A) Reserved words, pre-defined identifiers and user-defined identifiers
  - (B) Reserved pre-defined identifiers, reserved user-defined identifiers and library identifiers
  - (C) void, static, println.
  - (D) None of the above
- 02. Consider the two program segments below.

Segment A

Segment B

int a; int b; a = 100: int a = 100;

int b = 200;

a = 100;b = 200;

What is true about the comparison of these two segments?

- (A) Segment A is correct and segment B is not correct.
- (B) Segment A is incorrect and segment B is correct.
- (C) Segment A and segment B are both correct.
- (D) segment A and segment B are both incorrect.

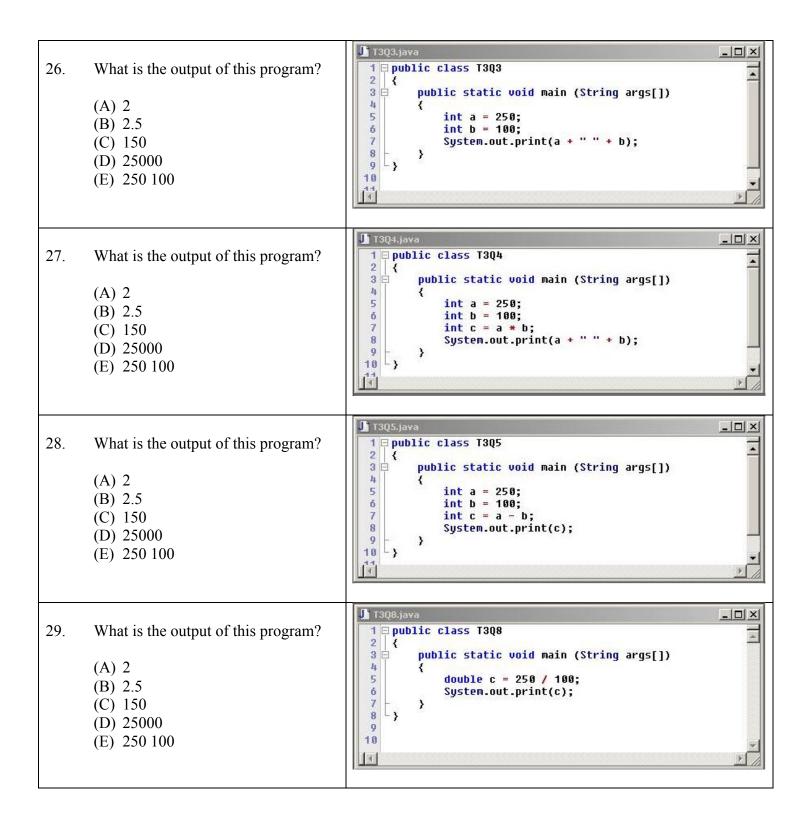
03.	Consider the two program segments below.	
	Segment A	Segment B
	<pre>int a; int b; System.out.println(a); System.out.println(b);</pre>	<pre>int a = 100; int b = 200; System.out.println(a); System.out.println(b);</pre>
	What is true about the compariso	on of these two segments?
	<ul> <li>(A) Segment A is correct and segment B is not correct.</li> <li>(B) Segment A is incorrect and segment B is correct.</li> <li>(C) Segment A and segment B are both correct.</li> <li>(D) segment A and segment B are both incorrect.</li> </ul>	
04.	Which of the following are examples of reserved words?	
	<ul> <li>(A) public, void and static</li> <li>(B) System, out and println</li> <li>(C) System, public and void</li> <li>(D) print, println and args</li> </ul>	
05.	Which of the following is used to	o store integers?
	<ul><li>(A) boolean</li><li>(B) char</li><li>(C) double</li><li>(D) int</li><li>(E) String</li></ul>	
06.	Which of the following is used to store real numbers?	
	<ul><li>(A) boolean</li><li>(B) char</li><li>(C) double</li><li>(D) int</li><li>(E) String</li></ul>	

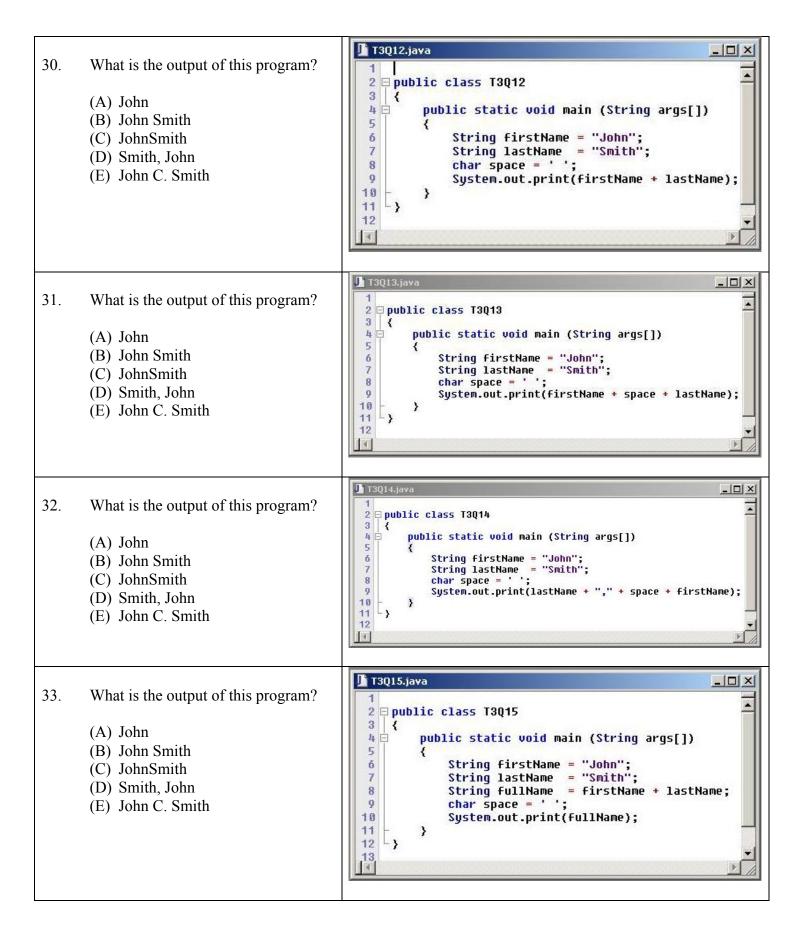
07.	Which of the following would be ideal for storing a Middle Initial?
	<ul> <li>(A) boolean</li> <li>(B) char</li> <li>(C) double</li> <li>(D) int</li> <li>(E) String</li> </ul>
08.	Which of the following would you need to store someone's name?
	<ul> <li>(A) boolean</li> <li>(B) char</li> <li>(C) double</li> <li>(D) int</li> <li>(E) String</li> </ul>
09.	Which of the following can only store 2 possible values: true or false?
	(A) boolean (B) char (C) double (D) int (E) String
10.	Which of the following stores 1 single character?
	<ul> <li>(A) boolean</li> <li>(B) char</li> <li>(C) double</li> <li>(D) int</li> <li>(E) String</li> </ul>
11.	Which of the following can store words, phrases, or sentences?  (A) boolean (B) char (C) double
	(D) int (E) String

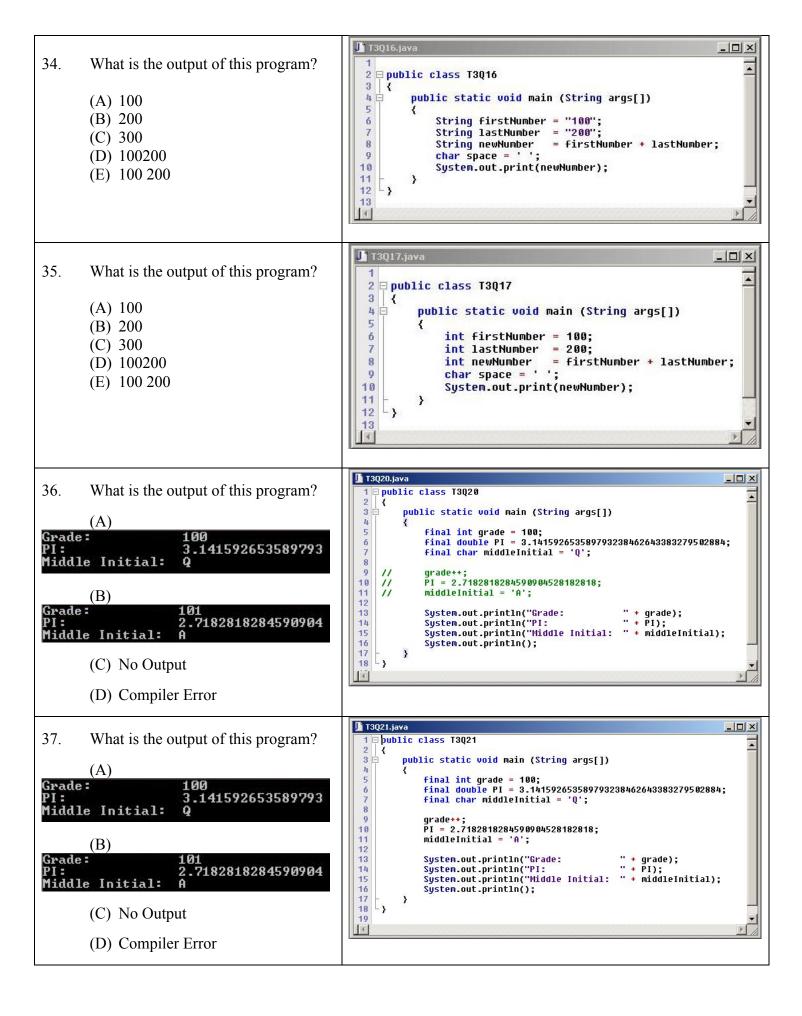
12.	Which of the following Java data types is the most like the Lego NXT <b>Number</b> data type?
	(A) boolean (B) char (C) double (D) int (E) String
13.	Which of the following Java data types is the most like the Lego NXT <b>Text</b> data type?
	(A) boolean (B) char (C) double (D) int (E) String
14.	Which of the following Java data types is the most like the Lego NXT <b>Logic</b> data type?
	(A) boolean (B) char
	(C) double (D) int (E) String
15.	Which of the following are Java Keywords?
	<ul><li>(A) Reserved Words</li><li>(B) Pre-defined Identifiers</li><li>(C) User-defined Identifiers</li><li>(D) All of the above</li></ul>
16.	Assume <i>x</i> is defined as an <i>int</i> . Which of the following will add 1 to <i>x</i> ?
	(A) x++; (B) x+=1; (C) x=x+1; (D) All of the above

17.	Assume <i>x</i> is defined as an <i>int</i> .  Which of the following will subtract 1 from <i>x</i> ?
	(A) x; (B) x-=1; (C) x=x-1; (D) All of the above
18.	Which operator is used for <i>multiplication</i> ?
	(A) + (B) - (C) * (D) / (E) %
19.	Which operator will find the <i>quotient</i> when performing <i>division</i> ?
	(A) + (B) - (C) * (D) / (E) %
20.	Which operator will find the <i>remainder</i> when performing <i>division</i> ?
	(A) + (B) - (C) * (D) / (E) %
21.	Assume <i>x</i> is defined as an <i>int</i> .  Which of the following will double the value in <i>x</i> ?
	(A) x = x + x; (B) x += x; (C) x = x * 2; (D) x *= 2; (E) All of the above

22.	7 is a(n) value.  (A) char (B) double (C) int (D) String	
23.	7.0 is a(n) value.  (A) char (B) double (C) int (D) String	
24.	(A) char (B) double (C) int (D) String	
25.	"7" is a(n) value.  (A) char (B) double (C) int (D) String	







38.	Which of the following is the <i>single-line</i> comment symbol?
	(A) //
	(B) \\
	(C) /* (D) */
	(D) */
39.	Which of the following is the <i>begin-multiple-line</i> comment symbol?
	(A) //
	(B) \\
	(C) /*
	(D) */
40.	Which of the following is the <i>end-multiple-line</i> comment symbol?
	(A) //
	$(B) \setminus (B)$
	(C) /*
	(D) */
41.	What is the value of x after this statement?
	int $x = 3 + 7 * 5$ ;
	(A) 26
	(B) 38
	(C) 48
	(D) 50
	(E) 66
42.	What is the value of x after this statement?
	int $x = 3 + (7 * 5);$
	(A) 26
	(B) 38
	(C) 48
	(D) 50
	(E) 66

43.	What is the value of x after this statement?
	int $x = (3 + 7) * 5$ ;
	(A) 26
	(B) 38
	(C) 48 (D) 50
	(D) 50 (E) 66
	(1) 00
44.	What is the value of x after this statement?
	int $x = (4 + 8) / 2$ ;
	(A) 2
	(B) 4
	(C) 6
	(D) 8 (F) 12
	(E) 12
45.	What is the value of x after this statement?
	int $x = 4 + 8 / 2$ ;
	(A) 2
	(B) 4
	(C) 6
	(D) 8 (E) 12
	(E) 12
46.	What is the value of x after this statement?
	int $x = 4 + (8/2)$ ;
	(A) 2
	(B) 4
	(C) 6
	(D) 8 (E) 12
	(E) 12

47.	What is the value of x after this statement?
	int $x = 2 / 5$ ;
	(A) 0 (B) 0.4 (C) 0.5 (D) 2 (E) 2.5
48.	What is the value of x after this statement?
	double $x = 2.0 / 5.0$ ;
	(A) 0 (B) 0.4 (C) 0.5 (D) 2 (E) 2.5
49.	What is the output of this program segment?
	double PI = 3.14159; System.out.println(PI);
	(A) PI (B) 3.14159 (C) PI = 3.14159 (D) PI = PI (E) Compile Error
50.	What is the output of this program segment?
	double PI = 3.14159; System.out.println("PI");
	(A) PI (B) 3.14159 (C) PI = 3.14159 (D) PI = PI (E) Compile Error

51. What is the output of this program segment? **double PI = 3.14159**; System.out.println("PI = " + PI); (A) PI (B) 3.14159 (C) PI = 3.14159(D) PI = PI(E) Compile Error What is the output of this program segment? 52. double PI; System.out.println(PI); (A) PI (B) 3.14159 (C) PI = 3.14159(D) PI = PI(E) Compile Error What is the output of this program segment? 53. int q = 11; q--; q--; q--; q--; System.out.println(q); (A) 7(B) 8(C)9(D) 10 (E) 11

54.	What is the output of this program segment?
	int q = 11;
	q;
	q++;
	<b>q</b> ;
	q++;
	System.out.println(q);
	(A) 7
	(B) 8
	(C) 9 (D) 10
	(E) 11
55.	What is the output of this program segment?
	int $q = 4$ ;
	q *= 2;
	System.out.println(q);
	(A) 7
	(B) 8
	(C) 9 (D) 10
	(E) 11
56.	What is the output of this program segment?
	int q = 24;
	q /= 3;
	q++;
	System.out.println(q);
	(A) 7
	(B) 8
	(C) 9 (D) 10
	(E) 11

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What is the output of this program segment?
57.
      int q = 24;
      q /= 4;
      q--;
      System.out.println(q);
      (A) 5
      (B) 6
      (C) 7
      (D) 8
      (E)9
      What is the output of this program segment?
58.
      int a = 2;
      int b = 3;
      a++;
      b--;
      int c = a + b;
      System.out.println(c);
      (A) 5
      (B) 6
      (C) 7
      (D) 8
      (E) 9
59.
      What is the output of this program segment?
      int a = 4;
      int b = 3;
      a *= 3;
      b *= 2;
      int c = a + b;
      System.out.println(c);
      (A) 6
      (B) 7
      (C) 12
      (D) 18
      (E)72
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What is the output of this program segment? 60. int a, b; a = b = 30;a /= 3; **b** /= **5**; int c = a - b; System.out.println(c); (A) 4(B) 6 (C) 8

- (D) 10
- (E) 30