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1. Which of the following sets of declarations will cause an error message?

I.
```
double x = 14.7;
int y = x;
```

II.
```
double x = 14.7;
int y = (int) x;
```

III.
```
int x = 14;
double y = x;
```

IV.
```
int x = 4;
double y = 3;
int  z =  (int) x / y;
```

a. None; all options are error free
b. I only
c. II only
d. II & III only
e. I and IV only

2. Which of the following would equal 2?

I.
```
int x = 0;
x ++;
x += x;
```

II.
```
int y = 4;
y ++;
y /= 2;
```

III.
```
int z = 4;
z += 2;
z /= 2;
```

a. I only
b. II only
c. III only
d. I and II only
e. I, II, and III

3. If x is an double and y is a int, which statement will cause an error?
a. y = x;
b. x = y;
c. x = (double) y;
d. y = (int) x;
e. all of the above are legal

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4. Consider the following code segment.

```
double x = (int) (6.5 - 2.5);
double y = (int) 6.5 - 2.5;
System.out.println(x - y);
```

What is printed?

a. -1.0
b. -0.5
c. 0.0
d. 0.5
e. 1.0

5. Which code segment will print an int?

a. System.out.print(7 / 1.3);
b. System.out.print(99 * 9);
c. System.out.print(6.0 + 31);
d. System.out.print(Int);

6. Given the following declarations, what is the result of the following code segment?

```
int iResult, num1 = 12, num2 = 30, num3 = 17, num4 = 4;
double fResult, val1 = 18.0, val2 = 11.28;
iResult = (int)(num1 - num4 /num3) * val1 - val2;
System.out.println(iResult);
```

a. error
b. 20
c. 204.0
d. 204.72

7. What is the best name/identifier for a class about test averages?

a. Test.Average
b. tA
c. thisRepresentsAClassAboutTestAveragesForMyAPCSACourse
d. TestAverage
e. test_average

8. What is the correct main method header?

a. public void static main (String () args)
b. public static main void (String [] args)
c. public static void main (String [] args)
d. public void static main [String() args]

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9. What is the result/output of running the following line of code?

```
System.out.print("One potato, \ntwo potato");
 System.out.println(" Three potato");
 System.out.print("Four");
 System.out.println("Who's at the door?");
```

a. One potato,
two potato Three potato
FourWho's at the door?

b. One potato, two potato Three potato
FourWho's at the door?

c. "One potato,"
"two potato Three potato"
"FourWho's at the door?"

d. One potato,
two potato
Three potato
Four
Who's at the door?

e. None of the above; error in code

's

\' = escape sequence for single quote

10. `double db1;` is an example of...
    a. Initialization
    b. Assignment
    c. Declaration
    d. Instantiation
    e. Error

double db1 = 5.0;
declaration initialization

11. In Java, execution starts at the...
    a. main method
    b. class header
    c. Inside the first curly bracket
    d. Line 1

Write lines of code to correctly declare and initialize variables for the following types of data: student's name, grade on a test and class test average. (2 points each)

	Data	code statement to declare and initialize the variable
#12	Student's name	
#13	Test grade	
#14	Class test average	

int grade = 80;
double avg = testGrade/4;
= 82.2;

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Use the following variable declarations to complete the table

```
int a = 5, b = 2, c = 20, d = 7, m ;
int r = 3, p = 0, n = 1, k = 100;
double y = 2.1, z;
final int MAX = 100;
```

What is the output of each of the following sets of code? Show your work.

	Code	Output	Work & Explanation of answer
#15	double z = c % d / (double)a + (k % 3) ; System.out.println(z);	20%7 /5.0+(100%3) 20%7/5.0+1 6/5.0+1	1.2+1 = 2.2
#16	int b = y / b + a; System.out.println(b);	2.1/2+5 1.05+5 = 6.05	error	int not double
#17	double z = c / a; System.out.println(y);	20/5 = 4 widening conversion	4.0	
#18	System.out.println((int)y + d - (n * MAX) / r % 2 * d - 3);	2.1 is now 2	2+7-(1*100)/3%2*7-3 2+7-100/3%2*7-3 2+7-33%2*7-3 2+7-1*7-3	
#19	m = (p - 2) – (int)(y * n); System.out.println(m);	-4	2+7-7-3 9-7-3 2-3 = -1
#20	**What's your feedback on week 1? Was the pace too fast? Too slow?**		

(0-2)-(int)(2.1*1)
-2-(int)2.1
-2-2=-4