AP Computer Science – Unit 1 Quiz MC   NAME _____

1. Which one of the following is NOT a correct arithmetic expression?

```
a) alpha
b) (alpha / momentum)  -  12.4
c) alpha ( / momentum  -  12.4 )
d) ((alpha / momentum)  -  12.4)
```

2. What does the following program output?

```
int totalCost = 6;
int items = 12;
System.out.println("cost per item: " + totalCost/items );
```

```
a) cost per item: .5
b) cost per item: 0
c) cost per item: 1
d) cost per item: +6/12
```

3. Which of the following statements contains an error that will be caught by the compiler?

```
a) int x, y = 7 z = -1;
b) z = x % y;
c) final int nums = 13;
d) char letter = 'D';
e) String word = "Hello";
```

4. What is the output of the following statement? (a "*b*" denotes a blank space)

```
System.out.println(EasyFormat.format(5.37, 5, 1));
```

a) 5.4   b) *b*5.3   c) *b*5.4   d) *bb*5.3   e) *bb*5.4

Use the following variable declarations for #5:

```
int a=1, b=2, c=3, d;
double x, y;
```

5. What is the value of the variable *d* after the following assignment statement?

```
d = 2 - (b + c) % c * 8 / (a + 3);
```

a) 0   b) 1   c) -1   d) 2   e) -2

For Questions 6-9, assume the following: `int a=1 ,b=2, c=3, d; double x, y;`

6. Which of the following evaluate to the same result?

```
I. d = 2 + 4;
II. d = (int)(2.3 + 4.6);
III. d = (int)(2.5 + 4.6);
```

a) I and II only   b) I and III only   c) II and III only   d) I, II and III   e) None

7. Which of the following expressions evaluates to 3?

a) c % b   b) 6 % c + b   c) c / b + b   d) a + c   e) b + c

8. What is the numerical value of the following expression?

```
Math.abs(Math.sqrt(16)  -  Math.pow(3,2))
```

a) 5   b) -5   c) 4   d) -4   e) 0

9. Which of the following assignments does NOT leave x with a value of 0.7?

```
a)  x = 7.0 / 10;
b)  x = (double)7 / 10;
c)  x = (double)(7 / 10);
d)  x = 7 / 10.0;
e)  x = 7.0 / 10.0;
```

The following questions refer to the Student class as defined on the accompanying paper.

10. Which of the following shows a correct use of the Student class constructor?

```
I. Student s = new Student(32, 67, 81);
II. Student s = new Student(32, 67, 81, "Elaine");
III. Student s = new Student("Sara", 32, 67, 81);
```

a) I only   b) II only   c) III only   d) I and II   e) II and III

11. Which of the following contains a syntax error using the Student class? Assume the following declaration:

```
Student s = new Student();
```

```
a)  double avg = s.getAverage(2);
b)  s.setScore(3, 85);
c)  s.setName("Amy");
d)  System.out.println(s);
e)  int score = s.getScore(1);
```