Use the following class definition to answer questions 1-4.

```
public static void main(String[]args)
{
    (1)  System.out.print("Hello ");
    (2)  System.out.print("Buenos  Dias ");
    (3) System.out.println("Bonjour");
    (4) System.out.println("How do you greet another?");
```

1.   What will print after line 2 executes?

(a)   "Hello" "Buenos Dias"

(b)   HelloBuenos Dias

(c)   Hello Buenos Dias

(d)   Hello on one line and Buenos Dias on another

2.   What will print after line 3 executes?
    (a) HelloBuenos DiasBonjour
    (b) Hello Buenos Dias Bonjour
    (c) HelloBuenos Dias
        Bonjour
    (d) Hello
        Buenos Dias
        Bonjour

3.   How many lines will print in this program?
    (a) 1
    (b) 2
    (c) 3
    (d) 4

_____ 4.   If you want to output the text   here 'there' and "everywhere" including the
              quotation marks, which of the following could do that?
              a) System.out.println("here 'there' and "everywhere"");
              b) System.out.println("here \'there\' and \'everywhere\"")
              c) System.out.println("here 'there' and \"everywhere\"");
              d) System.out.println(here there and everywhere);

_____ 5.   What value will z have if we execute the following assignment statement?
              double z = 10 / 4
              a) z will equal 2
              b) z will equal 2.0
              c) z will equal 2.5
              d) z will equal 2.2

_____ . 6. What value will z have if we execute the following assignment statement?
int z = 50 / 10.00;
a) 5
b) 5.0
c) 50
d) 10
e) none of the above, a run-time error arises because z is an int and 50 / 10.00 is not

_____ 7. What will be the result of the following assignment statement?
Assume b = 6 and c = -10.
int a = b * (-c + 2) / 2;
a) 24
b) -36
c) -24
d) 36
e) 0

_____ 8. Assume that x, y and z are all ints equal to 50, 20 and 6 respectively. What is the result of x / y / z?
a) 0
b) 12
c) 16
d) A syntax error as this is syntactically invalid
e) A run-time error because this is a division by 0

_____ 9 What is the output with the statement System.out.println(x+y); if x and y are int values where x=10 and y=5?
a) 15
b) 105
c) 10 5
d) x+y
e) An error since neither x nor y is a String

_____ 10 What is the output with the statement System.out.println(""+x+y); if x and y are int values where x=10 and y=5?
a) 15
b) 105
c) 10 5
d) x+y
e) An error since neither x nor y is a String

_____ 11. Of the following types, which one cannot store a numeric value?
a) int
b) double
c) char
d) all of these can store a numeric value
e) none of these can store a numeric value

_____ 12. The expression 1/5 is equal to which of the following?
   a) 0.2
   b) 1 / (int) 5.0
   c) (int) 1.0 / 5.0
   d) (double) 2/ 10
   e) 1.0 / 5.0

_____ 13. Which character below is not allowed as an identifier?
   a) $
   b) _
   c) 0 (zero)
   d) q
   e) !

_____ 14. Which of the following is a legal Java identifier?
   a) knightsAreNumber1
   b) 1isOurNumber
   c) knights/number/one
   d) 1_are_the_knights
   e) 1centennialknights

15. `System.out.print("\"\\/\\/\"");`

   What is the output

   A. "/\/\"   **B. "\/\/"**   **C. "/"\"**   **D. "\"/\/\\\"**

16. What is the result of the following expression?

   23 / 5 – 10 % (5 - 1) * 3 + 2 / 6

Use these variables to answer the questions below

int i = 12;
int x;
double d= 10.0;
double e = 11.7;
double y;

17) x = (int)e;   What is the exact value of x?

18) y = i;   What is the exact value of y?

19) x = i/8;   What is the exact value of x?

20) x = d/4;   What is the exact value of y?

21) y = i/8;   What is the exact value of y?

22.   6 / 3 * 2

23.   4 + 3 * 5

24.   7 - 2 * 5 % 3

25.   2+ 3 * 2 + 15 / 5

26.   12 - 6 / 3 % 3

```
27 System.out.print( Math.sqrt(Math.pow(5,2)));

28  System.out.print( Math.pow(3,3) );

30  System.out.print( Math.sqrt(36) );

31  System.out.print( Math.abs(-213.00));

32  System.out.print( Math.abs(-213));
```

Create Random numbers using the Math.random method. Store it in an int
variable.

33. Create random numbers between 10 and 50 inclusively.

34. Create random numbers between 2 and 25 exclusively

35. Create random numbers between 1 and 100 inclusively

1. _____ is a number system that uses the digits 0 through 7 and powers of 8.

2. _____ is a number system that uses the digits 0-9, A-F and powers of 16.

3. _____ is a number system that uses the digits 0-9 and powers of 10.

4. Write 11_{10} in octal.   I would convert 11 base 10 to binary then octal.

5. Write 14_{10} in hexadecimal.   I would convert 14 base 10 to binary then hex.

6. Convert 21_8 to decimal. Use the formula to multiply each place by the value of that place.

7. Convert $1100\ 1111_2$ to decimal.

8. Convert $1101\ 1100_2$ to octal

9. Convert $1010\ 1010_2$ to hexadecimal.

10. Convert 24_8 to binary.

QUESTION 31 (a) brace (b) semicolon (c) comma (d) period	Java statements in end a _____
QUESTION 32 (a) logical (b) syntax (c) run time	The compiler will not compile. You have made a _____ error.
QUESTION 33 (a) logical (b) syntax (c) run time	Trying to divide by zero will produce a _____ error.
QUESTION 34 (a) logical (b) syntax (c) run time	The output for our program produced 2.0 but it should have produced 2.6. What type of error would this be?

Declare and initialize the variables below.

35.   A person's name   _____

36.   The cost of a movie   _____

37.   The age of a person _____