	wa Summer 16 16 Test 1 me: Total: / 31			
	te whether following statements are True/False by writing <b>T (True) or False (F)</b> in the space vided right beside the question (13 marks)			
1.	A variable must be declared before it is used			
2.	A variable name can contain spaces			
3.	A variable is a name for a value stored in memory			
4.	The equal sign operator (=) is used to assign a new value to a variable			
5.	If a value could possibly have a decimal portion, int is the best data type choice			
6.	Math.round(9.6) = 10			
7.	Math.abs(-99) = -99			
<b>Multiple Choice Questions</b>				
8.	Comments are used to			
	A. create assignment statements			
	B. perform for loops			
	C. identify, explain, and clarify program code			
	D. make code faster			
9.	Math.pow(2,4)			
	A. 2			
	B. 4			
	C. 16			

10. Which of the following expressions could be used as the condition in an **if** statement?

A. x==y

D. 18

- B. x++
- C. x += y
- D. x=y

11.	An if statement that uses many if-else constructs to test the value of the same integer expression might be better written using a statement.		
A.	for		
B.	switch		
C.	while		
D.	break		
12.	What effect does \n have when included in an output string?		
A.	output is moved to the next line		
B.	a \n is displayed in the output		
C.	a tab (8 spaces is displayed in the output		
D.	a n is displayed in the output		
13.	13. What output will display as a result of executing the program code shown below?		
	int startingNumber = 10; int finalNumber = 25;		
	startingNumber = finalNumber / 5;		
	finalNumber = startingNumber + 5;		
	System.out.println("finalNumber: " + finalNumber);		
	A. finalNumber: 5		
	B. finalNumber: 15		
	C. finalNumber: 10		
	D. finalNumber: 25		

### **Short Answer Questions (4 marks)**

- 14. Consider the code shown below, and determine the following:
  - 1. How many iterations (repetitions) of this loop will there be?
  - 2. What will the value of j be in the final trace statement?

```
int j=10;
do
\{ \\ System.out.println(j); \\ j --; \\ \} while (j > 10)
```

- 15. What are the values of:
  - 1. numberOne
  - 2. numberTwo

immediately after the statements below are executed?

```
int numberOne =3;
int numberTwo =4;

if (numberOne > numberTwo)
{
         numberOne=5;
}
else
{
         numberTwo=5;
}
```

System.out.println("numberOne: " + numberOne + " numberTwo: " + numberTwo);

16. In the following 1 = true and 0 = false. Use 1 or 0 to complete the last column in each table. (4 marks)

A	В	A && B
1	1	
1	0	
0	1	
0	0	

A	В	A    B
1	1	
1	1	
1	0	
0	1	
0	0	

17. A fast food restaurant charges \$2.49 for burgers, \$1.89 for fries, and \$0.99 for soft drinks. Create an order application that provides the employee with input fields to enter the number of burgers, fries, and soft drinks that a customer orders. [10 marks]

The program is to display the total (before tax), the tax amount @ 13% (HST=13%), and the final cost.

The application output should look similar to:

Enter the number of burgers: 2 Enter the number of fries: 5 Enter the number of soft drinks: 5

Total before taxes: \$19.38

Tax: \$2.71

Final total: \$22.09

Modify the program to include another input field that the employee uses to enter the amount s/he received from the customer. This is called the amount tendered.

A message is then to be displayed indicating the correct amount of change.

Enter amount tendered: \$25.00 Change: \$2.91

Write your code in the following space provided.

Public static void main(String[] args){

// Codes Sttarts Here
Scanner input = new Scanner (System.in);

//continue your code here..