Degree of Freedom

JAVA PROGRAM

You Observe 100 people to see who deposits garbage in the can who litters. You want to see if there is a difference based on gender.

A person can fall in one of four categories:

1. Male, do not deposits garbage
2. Male, do not litters
3. Female, do not deposits garbage
4. Female, do not litters

Following table give you the observations

|  |  |  |  |
| --- | --- | --- | --- |
|  | Deposit | Litters |  |
| Females | 18  15 | 7  10 | 25 |
| Males | 42  45 | 33  30 | 75 |
|  | 60 | 40 | 100 |

Explanation: From above table 60 people deposit garbage and 40 litters.

To get percentage of Female who do not deposit we find by calculating (25% of 60) females to be value in the upper left cell.

Given this information is there any significant difference in littering behaviour between men and women?

Write a Java program to find num of male and female who do not deposit and litters. Pass the values from keyboard. Using object.

public class Assigment1 {

public void maledep()

{

double male\_dep = 60\*0.75;

System.out.println("% Male deposit is: "+male\_dep);

}

public void malelit()

{

double male\_lit = 40\*0.75;

System.out.println("% Male litters is: "+male\_lit);

}

public void femaledep()

{

double female\_dep = 60\*0.25;

System.out.println("% Female deposit is: "+female\_dep);

}

public void femalelit()

{

double femalelit = 60\*0.75;

System.out.println("% Female litters is: "+femalelit);

}

public static void main(String args[])

{

Assigment1 myobj = new Assigment1();

myobj.maledep();

myobj.femalelit();

myobj.femaledep();

myobj.malelit();

}

}

