

Leadsquared

Name – ROHIT KUMAR RANJAN

Registration Number – 17BCE10067

Job Role Preference – Reports Developer

Section 1 -- Queries

1. Select DEPARTMENT ,COUNT(*)

From Employee

GROUP BY DEPARTMENT;
2. Select DEPARTMENT ,FIRST_NAME ,LAST_NAME from Employee

Where EMPLOYEE_ID=MANAGER;
3. Select SUM(INCENTIVE_AMOUNT) as Total_Incentive,

MONTH(INCENTIVE_DATE) as Month, from Incentives

WHERE EMPLOYEE_REF_ID=EMPLOYEE_ID from Employee;
4. Select MONTH (INCENTIVE_DATE) as Month,

(Select ISNULL (max(INCENTIVE_AMOUNT),0) from Incentives

Where EMPLOYEE_REF_ID=EMPLOYEE_ID) Max_Incentive from Employee;

Section 2 :-

5. 1st Step -> At 0th minute start the both Hourglasses.

2nd Step -> At 4 minutes , 4 minutes hourglass exhausts and then we will flip it instantly . The 7 Minutes hourglass is still left with 3 minutes.

3rd Step -> At 7 minutes , 4 minutes hourglass is left with 1 minute . But the 7 minutes hourglass exhausts and then we will flip it instantly.

4th Step -> At 8 minutes , 4 minutes hourglass runs out and 1 minute has passed out on 7 Minutes hourglass and then instantly we will flip the 7 minutes hourglass as it is Left out with 1 minute

5th Step -> At 9 minutes, 7 hourglass becomes empty.

6. John and Mary have two kids so they are four possibilities:-

- . First kid is a boy and the second kid is a boy (B B).
- . First kid is a boy and the second kid is a girl (B G).
- . First kid is a girl and the second kid is a boy (G B).
- . First kid is a girl and the second kid is also a girl (G G).

So we have First kid who is a girl and now we are left with only one possibility in which both Kids are girls .

Final Probability of both kids being girl is $\frac{1}{3}$.

7. The argument presented here seems unconvincing because of the following reasons:-

a.) Is radio advertising alone has caused the increase in business at the Cumquat Café.

Because it does not focus on other factors that might have uplifted the sales percentage. Like:- the might have improved their service and product quality.

b.) The business for Cumquat Coffee increased after they advertised themselves through the local radio. But we cannot be sure that this will repeat for the other businesses. It might be the case that the other comes across decrement in their sales after advertising on the local radio.

So, the above argument is flawed and it can be strengthened if the aforementioned concerns are well addressed.