It is known that 60% people use Swiggy, 50% use Zomato. 20% people use both. Among those who use Swiggy, what fraction also use Zomato?

60 20 50

	Click on an option to submit your answer
Α	0.2
В	0.5
С	20/50
D	20/60

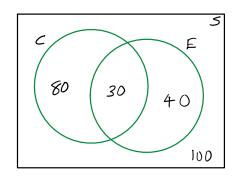
Find the phobability
that a person uses
zomato given that
helshe is already
using swiggy

$$ans = \frac{20}{60}$$

$$P(z|s) = \frac{20}{60}$$

$$P(z|s) = \frac{P(z \land s)}{P(s)}$$

It is known that 80% people like cappuccino, 40% people like espresso, and 30% like both. Among the people who like cappuccino, what fraction of people like espresso?



Click on an option to submit your answer				
Α	0.3			
В	30/80			
С	30/40			
D	0.8			

$$ans = \frac{30}{80}$$

$$P(E|C) = paobability$$
of E given C

$$P(E|C) = \frac{P(C \cap E)}{P(C)}$$

* conventing events in English to their mathematical born

Which of these probabilities represent the following statement: Among the people who like cappuccino, what fraction of people like espresso?

A P[Espresso | Cappuccino]

B P[Espresso U Cappuccino]

C P[Cappuccino | Cappuccino]

D P[Cappuccino ∩ Cappuccino]

A new way to solve - Only for M.E. & Exhaustive events

It is known that 30% of emails are spam, and 70% are not spam. The word "purchase" occurs in 80% of spam emails. It also occurs in 10% of non-spam emails. Overall, in what percentage of emails would we see the word "purchase"?



As these are M.E. 9 Exhaustive events,

NS			SP	
70	P 7	24	30	
				100

Thee Method | Thee Diagram

5% of all LinkedIn users are premium users. 10% of premium users are seeking new job opportunities. Only 2% of nonpremium users are seeking job. Overall, what percentage of people are seeking new job opportunities?

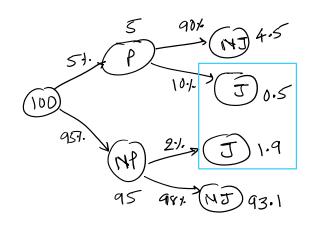
Click on an option to submit your answer

A 2%

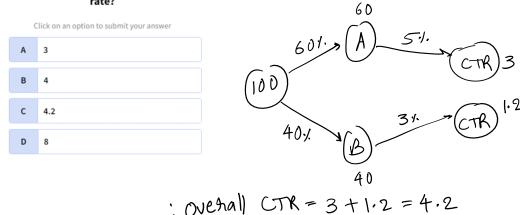
B 2.4%

C 3.7%

D 5%

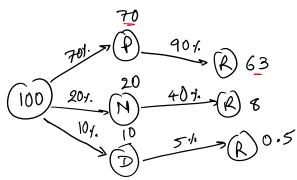


An e-commerce website shows two types of ads: A and B. 60% of the visitors see Type A, and 40% visitors see Type B. The click-through rate for Type A ads is 5%, while the click-through rate for Type B ads is 3%. What is the overall click through



In an NPS survey, it is seen that 70% are promoters, 20% are neutral, 10% are detractors. 90% of promoters, 40% of neutral, and 5% of detractors recommend the product to a friend. What is the overall percentalge of people who recommend the product?

Click on an option to submit your answer				
Α	50%			
В	65.7%			
С	71.5%			
D	82.9%			



Ovehall =
$$63 + 8 + 0.5$$

= 71.5

An important understanding

90% of A' are 'P' = Probability of P

given that 'A' has

occurred = P(P|A)

Portion of 'P' shared by 'P' & A'

both = P(P \cap A)

100 \(\frac{20}{8} \)

100 \(\frac{20}{8} \)

100 \(\frac{8}{8} \)

100 \(\frac{8} \)

100 \(\frac{8} \)

100

Understanding this concept using Linked in example-

5% of all LinkedIn users are premium users. 10% of premium users are seeking new job opportunities. Only 2% of nonpremium users are seeking job. Overall, what percentage of people are seeking new job opportunities?

	Click on an option to submit your answer
Α	2%
В	2.4%
С	3.7%
D	5%

51.	5 904: MJ	4,5
(100)	10/2 5	0.5
95.1	(NP) 21/2 J	
	95 984 J NJ)

P.O = 1.0P = (9 (EM))

P(J/P) = 10-1- =0.)

What fraction of Linked in users are looking for job and they are premium users? P(JMP)=0.5