

QUIZ

A website has noticed the following stats.

Among those who saw the ad, 70% saw it on Youtube, 50% saw it on Amazon, 35% saw it on both.

A random person is chosen. What is the probability that he saw the ad on Youtube?

- A) 0.7
- B) 0.5
- C) 0.35

For a new batch in RIA, we have the following information:

30% of the people know SQL.

80% of the people who know SQL also know Excel.

40% of the people who do not know SQL, also know Excel.

Among those who know Excel, what percentage know SQL?

- A) 0.46
- B) 0.28
- C) 0.24
- D) 0.4

In a city, 7% of people like on Idly.

5% of people like Dosa.

4% of people are on both Idly and Dosa.

A random person is chosen. What is the probability that he is like Idly?

- A) 0.05
- B) 0.04
- C) 0.028
- D) 0.07

In a city, 7% of people are on Twitter.

5% of people are on LinkedIn.

4% of people are on both LinkedIn and Twitter.

A random LinkedIn user is chosen. What is the probability that he is on Twitter?

A) 0.2

B) 0.7

C) 0.8

D) 0.9

A website has noticed the following stats.

Among those who saw the ad, 70% saw it on Youtube, 50% saw it on Amazon, 35% saw it on both.

A random person who saw the ad on Amazon is chosen. What is the probability that he also saw the ad on Youtube?

A) 0.7

B) 0.5

C) 0.35

A city has 2 taxi companies, A and B. A has 60% of the taxis in the city and B has 40%. A's taxis are involved in accidents 3% of the time, B's are involved in 6%. If a taxi is involved in an accident, what is the probability that it belongs to Company B?

A) 0.4

B) 0.57

C) 0.6

D) 0.69

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. A new mail does not has the word "purchase". What is the probability that it is spam?

- A) 0.08
- B) 0.09
- C) 0.1
- D) 0.11

5% of all LinkedIn users are premium users. 10% of premium users are seeking new jobs. 2% of non-premium users are seeking new jobs. A randomly chosen person is NOT seeking new jobs. What is the probability that he is a premium user?

- A) 0.021
- B) 0.046
- C) 0.078
- D) 0.083

An e-commerce website shows two types of ads: A and B. 60% of the visitors see Type A and 40% see Type B. The CTR for Type A ads is 5%, and for Type B ads is 3%. A visitor to the website does not click the ad. What is the probability that he saw a Type A ad?

- A) 0.32
- B) 0.47
- C) 0.59
- D) 0.80

Suppose 5 percent of men and 0.25 percent of the women are colour-blind. A random colour-blind person is chosen. What is the probability of this person being male? Assume there are an equal number of men and women overall.

A) 0.95

B) 0.83

C) 0.58

D) 0.5

A gambler has in his pocket a fair coin and a two-headed coin. He selects one of the coins at random, and flips it. It lands heads. Compute probability that it is fair coin

A) $\frac{1}{3}$

B) $\frac{1}{5}$

C) $\frac{1}{2}$

D) $\frac{1}{6}$

A family has 2 children, at least one of them is a girl. What is the probability that both are girls?

a) $\frac{1}{4}$

b) $\frac{1}{2}$

c) $\frac{1}{3}$