

Bank Susan at Bank Susan Notat Bank
Jenery
atbank

31. 127.

Jerry 22'. 58'.
bonk

a) P(Jerry at bank given susan was there)

P(Jevry/Susan) = 8 = 0.266 = 26.6%.

6) PC Jerry at bank given susan was not there)

P(Jersy/50san) = 12 = 0.171 = 17.1%. 58+12

() PC both were there given atteast one of them was there)

PCH) = 80%

PCS) =90%.

PCHUS) = 91%.

PCHUS) = PCH) + PCS) - PCHOS)

PCHOS) = PCH) +PCS) - P(HUS)

PCHOS) = 80+90 -91

PCH05) = 170-91

PCHNS)= 79

= 17.

6) PCONTY Shaeon) = PCS) - PCHOS)

= 90 - 49

= 117

c) P Crone) = 100 - PCHUS)

1.37

PC JOS) = 8%

If A&B one independent then,

PCAOBO = PCAO * PCBO

Here it is given,

P (Jns) = 8%.

and

PCJ) * PCS) = 20×30 = 60%

So the events Joney is at bank" one not independent.

PCsum is
$$6$$
) = $\frac{5}{36}$

PC second die show
$$5$$
) = $\frac{6}{36}$ = $\frac{1}{6}$

Acc to independent prob,

PC sum is 6
$$\Omega$$
 second die show $5) = \frac{5}{3} \times \frac{1}{6}$

Hence both events are not independent.

6)

Acc to independent probability,

P C Sum is 7
$$\cap$$
 fixst die shows 5) = $\frac{1}{6}$ $\frac{1}{6}$

Both events are independent.

1.57

$$Tx = \frac{60 \times 30}{100} \le 18\%$$

T×	AK	NJ	
oil Found 18%	ζ ^ν ,	ユ ン.	25%
oil Not 42%.	24%	9%	754.
bound 60%.	30%	10%	100

a) No of passengers that did not survive = 1490

Total number of passengers = 2201

PC passenger did not survive) = 1490 2201

in first class = 325

PC Staying in first class) = 325 220

()

Survived passengers Staying in first class = 203

PC First (lass/survived)=203 711

= 0.285

528.5%

d)

P(SUXVIVal) = 711 2201

= 0.323

= 32·3²

PC15tclass) = 325 2201

P(First/survived) + P(5) * P(15+)

so Nozindependend.

e) Passengus survived = 711

No of child in first class who survived = 6.

PCC/svovired) = 6 711

BD. Number of adults who survived 654

-s PC child / 1 st closs / Survived) = 6
711

= 0.0084

This event is also not independent