AAKASH RAMI

CS-513 Homework-1 CWID:-10453138

1.

20.1. (81.) 301.)

Susan at Bank		Susan not at Bank	
1	8-1.	12.1.	20%
Jerry at Bank Jerry not at Bank	ra katawani jiyan e yundanya nga arawa na jugatawani na inani masan Mili aktimang nasa ilipataga yaga kana ara	58%	80%
V	30%	- 08 Toy. 9	

6) p C Jerry at Bank | Susan not there)

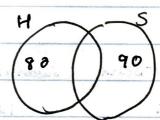
1. 61 710 4 T (1. 1) 4 - Ch parting 6

1 - 1 + 0 5 .

6

c) pCJns)/pCJus)

2.



$$p(H) = 80\%$$
 $p(H) = 90\%$
 $p(S) = 90\%$
 $p(H) S) = p(H) + p(S) - p(H)$
 $p(H) S) = 8p(H) + p(S) - p(H)$
 $p(H) S) = 8p(H) + p(S) - p(H)$
 $p(H) S) = 80 + 90 - 91$
 $p(H) S) = 79$

4.

c) Probability that both won't get B

3. For two events to be independent peg(s) = p(s)

$$\frac{28/100}{30/100} = 8/26.67$$

This, pCj/s) \(\pm\) pCj)
So, event are not independent

a) p(sum=6) = 5/36
p(second dieshow 5) = 6/36
= 1/6

(Quality (C) Apres, some mes)

Les.

$$pCsum=7) = 6/6 = 1/6$$

p (sum =7 1 pfirst die snow 8) = 1/36 pcsum 27) * pcfirst die 5) Thus, both events are independent. Chances of Choosing Tx = 60%. NJ= 10%. AK 2 100 - (60+10) = 30%. Chances of finding oil TX = 60x 30 = 187. AK= 30 x 20 = 64. 100 NJ = 10x 10 = 14. 100

1

5.

-

Finding Oil

TX AK

18%

67.

1%

NJ

25.1.

Oil not found 42.1. 24.1. 9.1. 75%.
60%. 30%. 10%. 100%.

a) pc finding 011) = 187. + 67. + 17.

b) pc Drived in Tx 5 oil found)

2 187. 2 T27.



perot sourvived) = 1490

PassengersNot Survived = 7490 Total Passengers = 2201

a) pc Not Survived) = 1490 = 0.6769

a) Passenger not survived

0

6.

10

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Mita

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100

1

pc Not survived) = 1490-673 2201-885

(23, (2) = 62.087.

1.89.0h = Causa

(4 July (- 7)

b) Passenger staying in first class.

pc First class) = 325 = 24.69%.

Children First Class Bullian

c) Passenger survived & first class

pcsnf)=203 = 40.68%.

d) For 2 event to be independent p(anb) = p(a) p(b)

p(s) = 100 - p(Ns) p(f) = 24.69.1. = 100 - 62.08 = 37.92.1.

$$pcsned = 40.68\%$$
 $pcsnef) + pcs) pce)$

So, the events are not independent.

e) Passenger survived, first class & child

499

f) Passenger survived & Adult

g) Passenger survived, age & staying in First class independent

The state of the s

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0

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0

pCage passenger survived) = p(A/8) + p(c/8)
= 442 + 57
499
499

= 1

pC survived & first class) = 40.88%.

Thus, p(age & first class) 240.68%.

So, events are independent.