

58 %

Homework 1.1 & XXXX

Ans 9) Swam was at the bent last monday?

Jerry

notat bank

 $\Rightarrow \Rightarrow$ 

Ans.

what's the Prob that Jerry was there too?

300 2 J 20% 8 30%

Bank, Susan Susan not at bank. at bank

Terry 8%. 12%

at bank

Answer of A) 8 = 26.6%

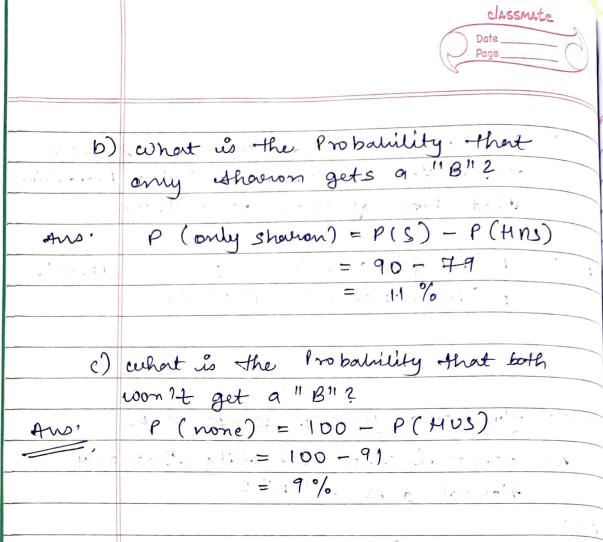
dd %/0

b) hast Friday, Susan wasn't at the bunk, what the Pnobability that Jerry was there ?

P (jerry/Susan) = 12 = 17.1% 58+12

Classmate c) hast evedines day at least one of them was at the benne, what is the Probability that both of them were there? (H) 1 - (S) 1 - ( comple plane) 1 (S) - 1 (M) P (jerny V Susan) = 8 P (jerny V Susan) (2+22+8 \_ 19.04°/ ed the He philadelock all it to be \$ "& " B - L. P. j- " rot , Homeworste 1-2 \* \* \* \* A) what is the Probability that only Harold gets as I B" ? Ans' P (Hourdal) = 80% of (Harrold U)

P ( 3 herron) = 90% of Sherron) 91% P(HUS) = P(H) + P(S) - P(HNS) "CE TWEET ) PCH) + PCS) + P(HIUS) 80 H 90 79 1 mm2) -1 1 min = 1170 = 91 = 79 1 (3)4 × (4)7 - 13(4)7 a) P (only Harold) = P(H) - P(Hns) = 80-79 to who a , . - = 1.0/0 1 10 0.



· reported for Too. y lowery 1.3, \* \* \* \* \* > HOME WORK

Are the energy "Joury so at the barne" and " swan is at the bank" Independent?

P(Jovy) = 120% P(Swan)= 30% P (Swam) P (Jns) = 8% If A &B are Independent

P(ANB)= P(A) \* P(B) Ginin - P(J NS)=8%, P(J) +P(S)= 20 x30

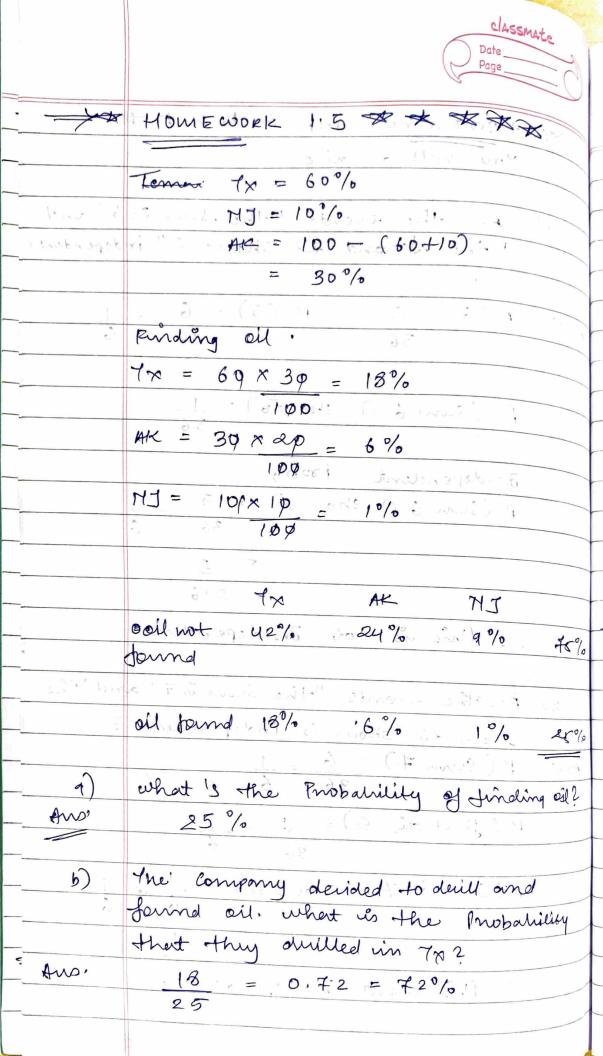
= 60%

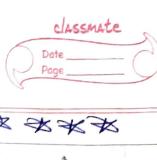
So it is not dependent.



\* HOME COOKE 1.4 \*\*\* You soll a dice. Are the events "the sum is 6" and " the Second die Shoos 5" independent? P(6) = 5P (Sum 6 () show(6) = 1 36 andependent Probin P (Sum 6 () show 5) ×= 15 . This is not Fridependent. 6 L'ast die "shows 5" independent? P(Sum 7) = 6 = 1 P(first die 5) = 6 = 1P (Sum is 7 1) shows 5) = 1 x 1

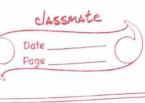
Are the events "the Sum is 7" and "the Aus' 26 (1. . This event Independent.





\* HOME WOKK 1.6 \* \* \*\* a) what is the probability that a Passenger did not Survive 2 Surine = 1490 10+al = 2201 12.111 = 72 E . Casalo 111 , 11 Mot Survived = 1490 = 67.6% 2201 5 - 805 - ( paramens) + 5039 1 b) what is the Probability that a Passinger was! stuying in the first class ? 1107 Judependent Fisst class = 325 color in the Probability that 201-P ( staying in Jist class) = 325 = 14.7% personal with lervo and forten was a child? what is the Probability that the e) Passenger was slaving un Host Class ? Aus' Simmired = Heo3 blue 12 of P ( Pist class / Survived) = 203 = 28.5%

classmate Are Survival and staying ein the d) P (Swyniral) = 7-11 = 32.3% P (Ist class) = 325 = 14,7% P ( Hast / Swinived ) = 203 = 28.5% P(Sumired) = P(S) + P(IS) HOT Independent. Flast close = 32 what is the Probability that the e) Passinger was slaying in the first class and the Passenger coas a child? with butto philiterature with on tentro Ho, of child first class , = 6 P. ( c/ sumived ) = 10.008. 7-11 = 0.89%



t) what is the Probability that the Passenger was an adult?

Ans' Survived = 654

P (Adult / Survived) = 654 = 91.9%

711

g) Age and sterying in the first

class Independent?

Ano' P (Ist class / Survived) = 203

711

= 28.5 %.

P(Adult) = 654 = 91,9% 71)

P(Adult/J Mass/Survived) = 197 = 27.7/6

P (Jst class, Junived) & P (A /S) F
P (Adult / Jst class / Sur)

.'. NOT independent.

→ P (child /swr) = 57 = 8% 711

→ P (child/ Jst class /swr) = 6 = 56.

711 0.0

: Not Independent. = 0.84%.