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OfficeHours_IS31_20160405_Seg05.pdf

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Setting: mild classroom

Participants: IS31 (lakers sweater, male), S1 (glasses, male), S2 (gray sweater, female), S3 (hat, male, black jacket), S4 (female, maroon sweater)

0:00

XXX IS31: for part b: you ca:n just check the number on the table.
XXX S1: (.1) ah
XXX IS31: because the table gave the probability that x is (.)
XXX less than something
XXX right?°
XXX S1: ((nods)) ah
XXX IS31: and then for part c you (.) need to (.1) (transformate).
XXX because part c says the probability that z is greater than
XXX S1: ((nods))
XXX IS31: so you need to transfer it into (.) one minus (.) the
XXX probability that (.) z is less than or equal to x.°
XXX S1: ((inaudible))
XXX ((pause while IS31 reads notes))
XXX IS31: hm, (.2)
XXX oh
XXX this one ((points at notes))
XXX ((pause))
XXX yea (.1)
XXX yea this is
XXX S1: (wait for greater and equal sign.°)
XXX (would it be greater or equal°)
XXX or like would it be like (.)
XXX IS31: uh: this is-
XXX it doesn't matter
XXX because you know
XXX **for (continuous↑) distribution↓ (.1)**
XXX uh with equal or without equal
XXX the probability are the same
XXX S1: oh=
XXX IS31: =because the probability that (.1) z is equal to the sum
XXX minus zero.
XXX S1: so I (.) then ((unclear))
XXX IS31: hm? ((could not hear S1))
XXX S1: so
XXX greater or equal to doesn't matter which one°=
XXX IS31: =uh:
XXX you- you should write it as is but

XXX the probability is the same (.) with that↓°
 XXX z is (.) less than (.) ((points @ paper)) this
 XXX S1: oh
 XXX IS31: yea
 XXX S1: so like (.) even if I write (.) on the table ((unclear))
 XXX (it would just go to the same)=
 XXX IS31: =yea ((nodding))
 XXX and the continuous distribution↓ you don't (.) need to worry
 XXX about this one.°
 XXX S1: oh=
 XXX IS31: =but for:
 XXX uh
 XXX this quiz (.) (distribution) is (.) not ((unclear))
 XXX S1: ((nods))
 XXX ((finished with S1, S2 comes in))
 XXX S2: for this one, ((unclear)) twenty eight,
 XXX IS31: ah
 XXX ((S1 pause while reading notes))
 XXX S2: one point (fifty to eight)
 XXX IS31: uh:
 XXX ((pause while flipping notes))
 XXX S2: here right, ((points at paper))
 XXX I got this number, but the answer,
 XXX it says (zero point) ((unclear))=
 XXX IS31: =uh: that- that doesn't matter.
 XXX maybe he used another (.)
 XXX S2: ah it doesn't matter?
 XXX IS31: yea it doesn't matter.=
 XXX S2: =ah ok
 XXX IS31: yea it's: such a- such (.)
 XXX I mean the (.) difference in the last two digits
 XXX it doesn't
 XXX S2: oh ok
 XXX ((pause; resuming their own tasks))
 XXX and how do you find this one? ((pointing @ book))
 XXX IS31: m:
 XXX ((pause as they're looking at notes))
 XXX S2: ((inaudible)) (.3) cause there's no (.1) table
 XXX IS31: uh:
 XXX you can do a approximation.
 3:00
 XXX you can just view this as (.) zero point zero eight (.1)
 XXX so:
 XXX let's: look at this°
 XXX ((S2 reading notes to herself aloud))

XXX IS31: point [four
 XXX S2: [four six eight one?
 XXX IS31: yea
 XXX S2: oh: (nods head)
 XXX IS31: it's doesn't matter (anyways)((unclear))=
 XXX S2: =ah:
 XXX IS31: yea° ((nods))
 XXX ((convo between S3,S4; IS31 not involved))
 XXX IS31: oh ok ((helping S1))
 XXX uh so:
 XXX ((pause))
 XXX uh:°
 XXX first (.) step is that this, (.)
 XXX actually this is should be (.) five x minus (.)
 XXX ((looks at S1)) five minus x.
 XXX S1: five (.) x
 XXX IS31: yea because five x means↓ a probability that (.)
 XXX uh: the >(random variable)< means less than x right?
 XXX ((S1 nods))
 XXX yea so:
 XXX for this case (.) z should be: less than x=
 XXX S1: =ok
 XXX IS31: but greater than minus x.
 XXX S1: ok=
 XXX IS31: =so: this should be five x° ((unclear))
 XXX and uh (.) another step is that (.) there's a relation↑
 XXX between five minus x and five x.°
 XXX do you remember that?
 XXX S1: n:o ((shaking head))
 CLF IS31: uh:
 CLF (do you remember this?°) ((hands S1 a paper))
 CLF so (.) uh:
 CLF five ((unclear)) x ((pointing at paper))
 CLF this is minus x.
 CLF so: five x is this part. ((circles something))
 CLF right?°
 XXX S1: like
 XXX what do you mean
 CLF IS31: uh:
 CLF th- this five x
 XXX S1: yea ((nodding))
 CLF IS31: should be th- this part.
 CLF right°
 XXX S1: ((unclear))
 XXX IS31: yea yea°

XXX and this five minus x is
 XXX uh
 XXX this part. (.) right?°
 XXX S1: yea
 XXX IS31: so (.) th- and because this is metric. (.2)
 XXX I mean (.) uh
 XXX it's metric by this
 XXX S1: yea
 XXX IS31: so the sum of these two parts (.1)
 XXX should be what
 XXX S1: so:
 XXX the sum of: half (.) the: entire (.) thing
 XXX IS31: uh the half the- the part- the sum of (.1)
 XXX S1: x=
 XXX IS31: =the error
 XXX uh: (.) I mean (.1)
 XXX uh
 XXX on the left of x and on the left of minus x. (.1)
 XXX should be what°
 XXX S1: (.2) half of x (.1) plus (.1) ((unclear))
 XXX IS31: hm?
 XXX S1: so wouldn't this one be half of (.) x?
 XXX (cause since x is bigger than four,) and then: (.) plus (.) this one ((pointing with pen))
 XXX IS31: ah yea th- this one plus this ((circles something))
 XXX this part
 XXX ((blank look from S1))
 XXX because th- this part is equal to. ((circles something))
 XXX ((pause))
 XXX mm:
 XXX for example we can
 XXX S2: excuse me ((gets phone from under S1))
 XXX S1: oh
 XXX IS31: can divide it into three parts.
 XXX this is one two (.) three ((circling paper))
 6:00
 XXX and the one is equal to ((unclear))
 XXX right?=
 XXX S1: =yea
 XXX IS31: and the- uh five minus x
 XXX this is minus x ((unclear))
 XXX i:s just part (.) part one.°
 XXX right°
 XXX S1: ((nods))
 XXX IS31: ((unclear))

XXX and five x (.2) ((writing something down))
 XXX is the sum of these two parts.° (.1)
 XXX (cause it's uh (.) left off°)
 XXX S1: ((slight nod))
 XXX IS31: so it's equal to° (.) one plus two,°
 XXX so the sum of this (.) is one plus one plus two.°
 XXX and x (.) one is equal to (.) three
 XXX so it's just (.) one plus two plus three.°(.2)
 XXX so:
 XXX how do we know that (area) under this curve is one.° (.3)
 XXX S1: ((nods))
 XXX IS31: yea° so (.1)
 XXX the sum of this ((circles))(.) number (.1)
 XXX should be what
 XXX S1: ((hesitantly)) (sorting it?°)
 XXX IS31: hm? ((leans forward))
 XXX S1: (sorting it?)
 XXX I don't really completely understand.
 XXX IS31: uh:
 XXX S1: like so
 XXX when it says like (.)
 XXX five x (is this (.) everything)
 XXX IS31: yea yea
 XXX the error ((area?)) (.) on the left of x.°
 XXX S1: so like (.) in
 XXX so when it's saying like (.1)
 XXX every- when it's saying like it equals (.) point seven five
 XXX eight
 XXX it's saying-
 XXX IS31: it means
 XXX thi- this part- part two
 XXX S1: mm
 XXX IS31: part two is
 XXX but as you have transfer it into five x and five minus x.
 XXX so you: now you don't need to consider (.) uh this one.
 XXX you just only need to
 XXX ((interrupted mid speech by S4))
 XXX S4: thank you
 XXX bye ((waves at camera))
 XXX IS31: oh bye
 XXX S4: bye professor ((waves off screen and leaves))
 XXX IS31: just need to consider five x and five minus x.°
 XXX ((pause))
 XXX S1: (oh)
 XXX ((pause))

XXX and uh (.) for example: before you
 XXX uh
 XXX move into this apartment
 XXX S2: mhm
 XXX IS31: there is just one crime
 XXX and so (.) the time (.) till the next crime is a (.1)
 XXX exponential distribution
 XXX S2: mhm=
 XXX IS31: =and uh part a say that (.1) in the first five years there
 XXX is no crime.
 XXX so this time should be (.) greater than (.) five years.°
 XXX S2: so it means (.) after five years
 XXX IS31: [yea
 XXX S2: [there m- may be-
 XXX IS31: there may be a crime
 XXX but within the first five years there's no crime.°
 XXX S2: within the five years means (.) greater than five?
 XXX IS31: u:m
 XXX S2: or-
 XXX IS31: because this- the (.) random variable x represents
 XXX the time [(.) that you
 XXX S2: [mhm
 XXX IS31: mm (.) meet one (.) crime
 XXX right
 XXX S2: (.2) mm:
 XXX IS31: and because (.) there is no crime in (.) the first (.)five
 XXX years,
 XXX S2: mhm=
 XXX IS31: =so this crime can only occur: (.) when x is (.) greater
 XXX than five.°
 XXX [like in the sixth year,
 XXX S2: [so it means ((unclear))
 XXX IS31: five=
 XXX S2: =is that mean
 XXX IS31: [((unclear))
 XXX S2: [it will be five?
 XXX IS31: will not
 XXX it say will not be. (.)
 XXX S2: five
 XXX IS31: I don't know this word
 XXX but maybe you can- you can just think it's (.) there will
 XXX not be crime
 XXX uh ((reads paper))
 XXX during this time
 XXX S2: mm:

XXX IS31: yea
 XXX ((pause, S2 reading))
 XXX S2: mm:
 XXX ((pause))
 XXX ok
 XXX ((writes something on paper))
 XXX ((pause))
 XXX so: (.) wait
 XXX does my ((unclear)) correct then?
 XXX ((pause, IS31 reading paper))
 XXX IS31: mm:
 XXX S2: [((unclear))
 XXX IS31: [if you (.)
 XXX want (.) to calculate the (.1) x greater than five so I
 XXX think (.1)
 XXX [the equal-
 XXX S2: [five to infinity?
 XXX IS31: yea
 XXX or
 XXX S1: [bu:t-
 XXX IS31: [if you calculate this you can use y to minus x.^o
 XXX ((unclear))
 XXX S2: but (.2)
 XXX mm:
 XXX five to infinity,
 XXX ((starts writing down))
 XXX fx which means
 XXX I have to start anyway from zero to five.
 XXX isn't it?^o
 XXX I have to change the interval.
 XXX isn't it?^o
 12:00
 XXX IS31: uh:
 XXX well what do you mean by (.) change (interval?^o) (.1)
 XXX because you- you know-
 XXX S2: cause-
 XXX IS31: uh th- this two:
 XXX **the sum of this two parts↓**
 XXX is equal to (.) one (.1)
 XXX and because that's
 XXX S2: [mhm
 XXX IS31: [this
 XXX and uh if you (.)
 XXX uh:
 XXX **so: the direct measurement should be↓ (.)**

XXX do integration of this part ((points))
 XXX S2: mhm=
 XXX IS31: =but if you have calculated this one↓ ((points))
 XXX you can just use one to minus (.) that.°
 XXX and you get°
 XXX S2: mm:
 XXX IS31: this°
 XXX because as you have
 XXX [done
 XXX S2: [so this is wrong? ((points @ paper))
 XXX IS31: uh: ((nods)) uh
 XXX you can use this
 XXX but act- I mean: the probability should be this part
 XXX S2: oh ok=
 XXX =but as there is a relation between this two
 XXX so you can use one minus (.) this↓ to get (.) the (.1)
 XXX [probability you (.) need
 XXX S2: [mm:
 XXX mm:
 XXX IS31: now you know the (.) probability should be x (.) greater
 XXX than (five°)
 XXX yea° (.2)
 XXX and it's better to do ((inaudible))
 XXX S2: but in the answers,
 XXX IS31: ah
 XXX S2: ((pause while looking at phone))
 XXX IS31: ((looks at time and turns to S3))
 XXX actually I will (.) leave soon,
 XXX do you [have a question
 XXX S3: [yea
 XXX seven two five right?
 XXX seven pi if I get a two (.) seven point two right?
 XXX IS31: [ah
 XXX S3: [seven six four two
 XXX IS31: uh:
 XXX S3: (how they get the seven six five eight)
 XXX I'm getting seven six four two.
 XXX ((pause))
 XXX IS31: uh what's the number?
 XXX number is (.) seven-
 XXX S3: seven two five eight
 XXX IS31: uh:
 XXX [is that ((unclear))
 XXX IS31: [actually for- for this case
 XXX I think you can either use (.) seven two:

XXX or seven three
XXX or the average of (seven three.°)
XXX S3: even if we uh use the seven three↓ seven six seven two°
XXX IS31: mm:
XXX S3: and you have here seven six five eight.°
XXX IS31: I think you can use- uh-
XXX S3: I think (you best use the R)
XXX IS31: yea yea yea ((chuckle))
XXX you can use that
XXX but um
XXX for this case (.) uh
XXX a better way is to use a average of this↓ (.)
XXX two numbers.
XXX S3: average of two numbers?
XXX IS31: yea because-
XXX S3: I'm not going to do that
XXX IS31: ok
XXX yea th- that's also fine ((chuckle))
XXX S3: thanks
XXX S2: um ((IS31 turns to help S2))
XXX S3: I'll pass it ((still talking))
XXX it's not gonna give me extra credit or anything
XXX either way I'm gonna get it right ((laughs))
XXX ((IS31 not listening))