Date ... / ... / ...

Page ...

VATSAV SETHUPATHI

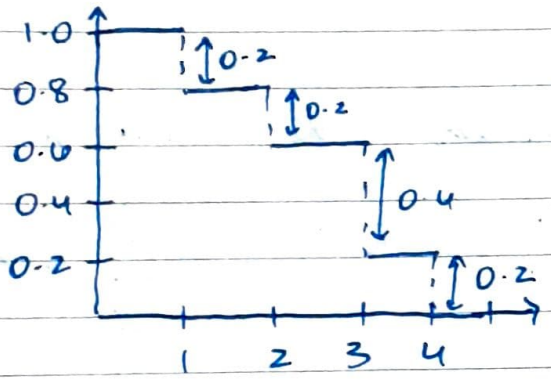
DATA 363 : Checkpoint B1B2

B1 - 10

$n = 10 \Rightarrow 1, 3, 3, 3, 4, 2, 4, 2, 1, 3$

$$\bar{x} = \frac{2(1) + 2(2) + 4(3) + 2(4)}{10} = \frac{26}{10} = 2.6$$

$p(1) = 0.2 \quad p(2) = 0.2 \quad p(3) = 0.4 \quad p(4) = 0.2$



Area of rectangles $\Rightarrow$

$(0.2)(1) + (0.2)(2) + (0.4)(3) + (0.2)(4)$

$= \boxed{2.6} = \bar{x}$

B2 - 7

$\bar{x} = 8.12$

x	$n(x)$	$x - \bar{x}$	$(x - \bar{x})^2$	$(x - \bar{x})n(x)$	$x - 8$	$(x-8)^2$	$(x-8)^2 n$
5	3	-3.12	9.734	29.203	-3	9	27
6	3	-2.12	4.494	13.483	-2	4	12
7	4	-1.12	1.254	5.018	-1	1	4
8	5	-0.12	0.014	0.072	0	0	0
9	4	0.88	0.774	3.098	1	1	4
10	3	1.88	3.534	10.603	2	4	12
11	1	2.88	8.294	8.294	3	9	9
12	1	3.88	15.054	15.054	4	16	16
13	1	4.88	23.814	23.814	5	25	25
				108.639			109

We can see $SS(\bar{x}) = 108.639$ & $SS(8) = 109$