Day 4 - Histogram Details

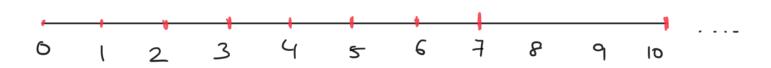
Distribution table

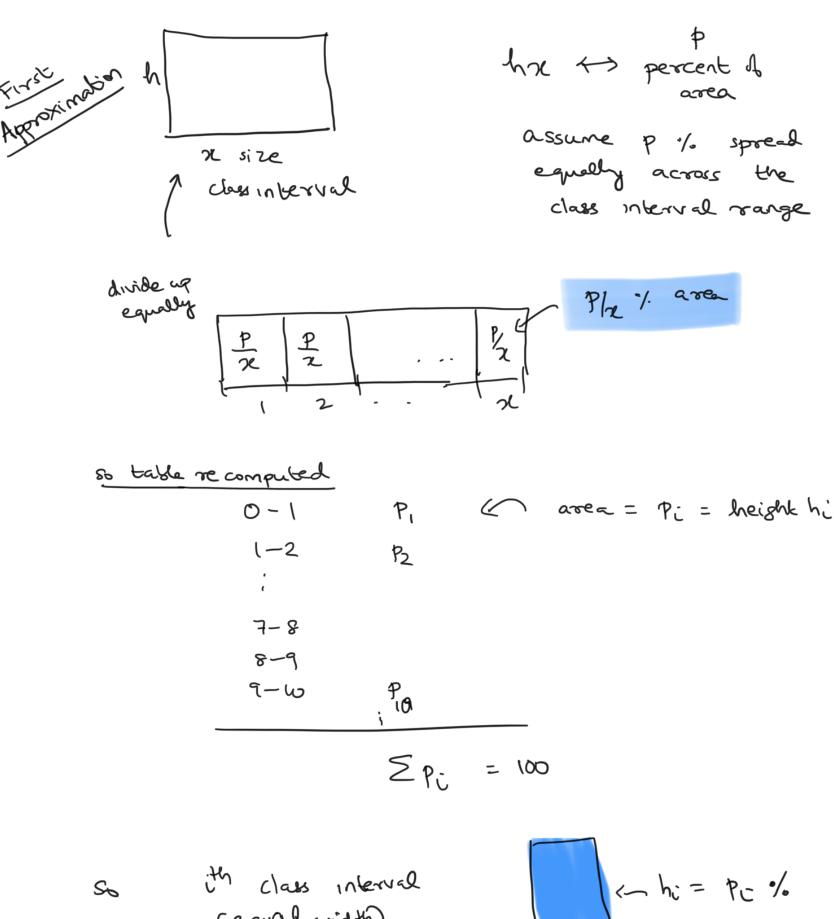
class interval	percentage of population in class interval
0-1000	(
1000-2000	2_
2000-3000	3
3000 - 4000	4
4 000 - 5000	5
5000 - 6000	5
000F - 000	5
7000 - 10,000	1 15

endpoint convention what to do with population on boundary points of class intervals?

(cg) left end point included, right excluded

→ [a, b]



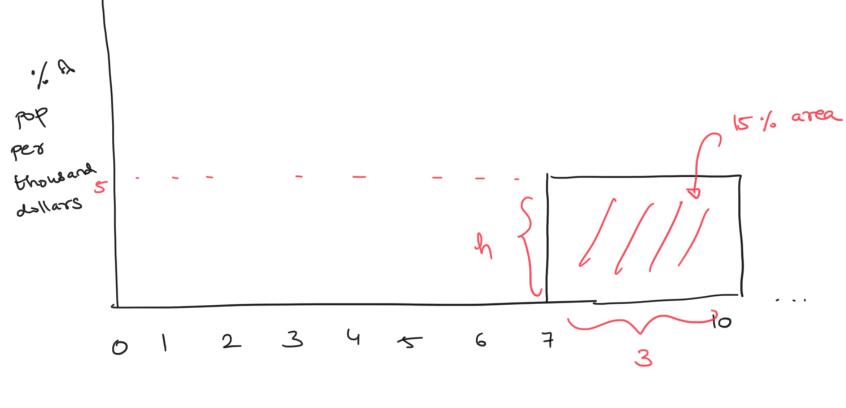


cequal width)

Let width = 1 unit

ht ob a block / 2-width = original %, class interval 2

in our example



income in loops of dollars

$$wh = p$$

$$h = \frac{p}{\sqrt{pop}} = \frac{5\%}{\sqrt{pop}} = \frac{1000 \, \text{s}}{\sqrt{pop}}$$

So up of histogram block over class interval [7, 10]

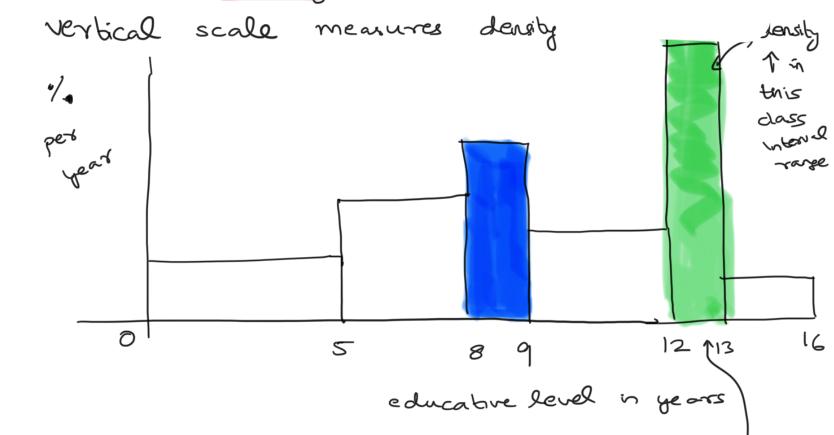
=5

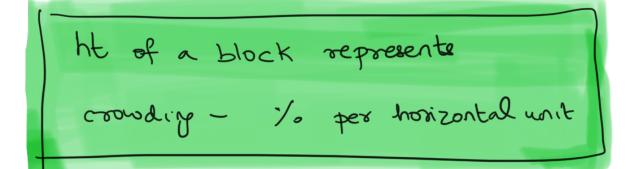
Fer 1000 dollars

(10) for every 1000 dollar interval bet [7000, 10000]

there are 5% of families in that interval.

Densiby





high

high

histogram

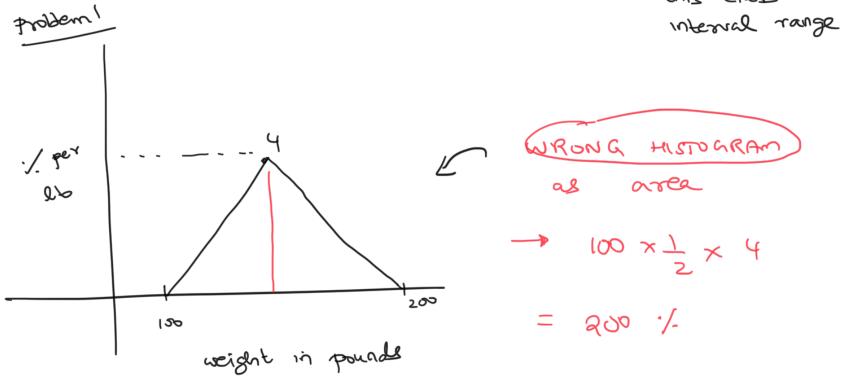
box height

means high

number 1 people,

unit width in

this class



9-000 \$

2 / Per every 1000 \$

in [15,000 - 25,000]

15 25

income in thousand

dollars

So total % pop in [15000, 25000]

= 10 x 2 = 20%

2% per \$1000 x 10 x \$6000

= 20%