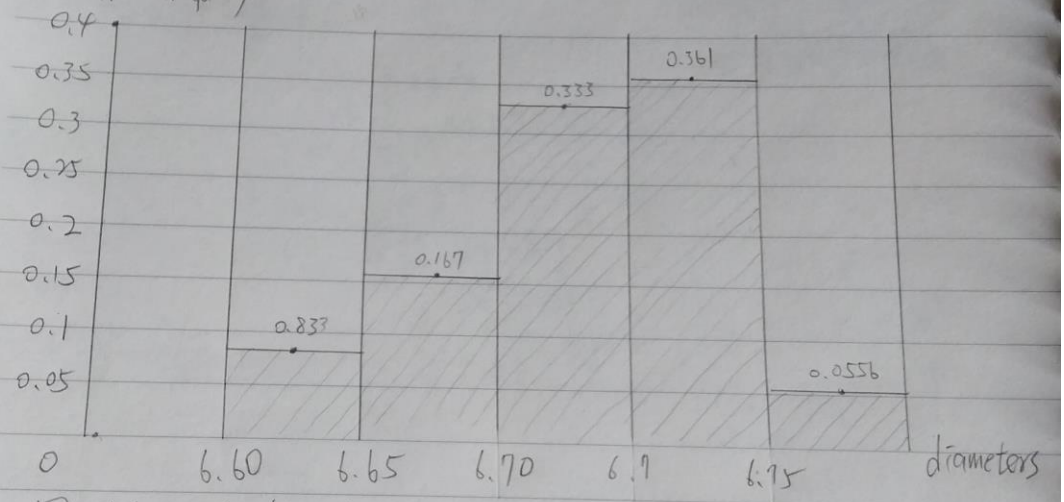
date . . No

#1.22

(a) $\text{mean} = \frac{x_1 + x_2 + \cdots + x_{36}}{36} = 6.7261$ #

$\text{std} = \sqrt{\frac{\sum (x_i - 6.7261)^2}{36-1}} = 0.053574$ #

(b) relative frequency



(c) 圖形向左傾斜，無明顯證據說明為常態分佈

date No.

2.8

(a) $A = \{(3,6), (4,5), (4,6), (5,4), (5,5), (5,6), (6,3), (6,4), (6,5), (6,6)\}$ #

(b) $B = \{(2,1), (2,3), (2,4), (2,5), (2,6), (2,2), (1,2), (3,2), (4,2), (5,2), (6,2)\}$ #

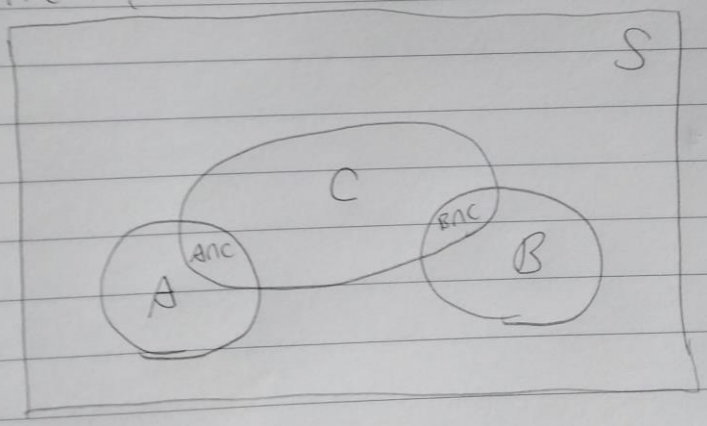
(c) $C = \{(5,1), (5,2), (5,3), (5,4), (5,5), (5,6), (6,1), (6,2), (6,3), (6,4), (6,5), (6,6)\}$ #

(d) $A \cap C = \{(5,4), (5,5), (5,6), (6,3), (6,4), (6,5), (6,6)\}$ #

(e) $A \cap B = \emptyset$

(f) $B \cap C = \{(5,2), (6,2)\}$ #

(g)



date . . No.

#2.20

(a) $M' \cap T' \cap V \rightarrow 6$ #

(b) $M \cap T \cap V' \rightarrow 4$ #

(c) $(M \cup V) \cap T' \rightarrow 2, 5, 6$ #

(d) $V' \rightarrow 4, 5, 7, 8$ #

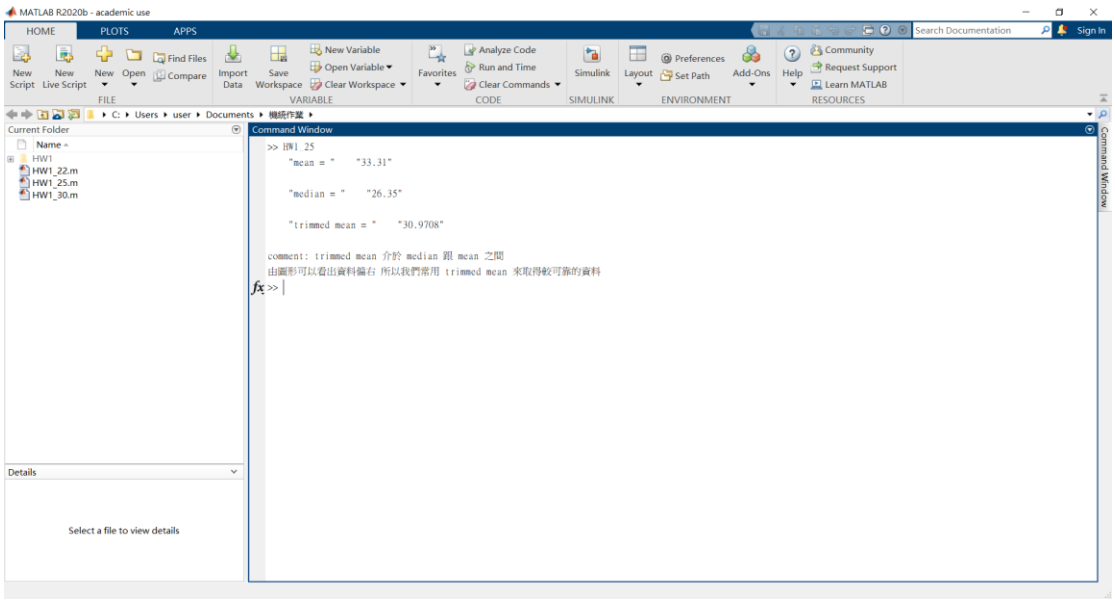
#2.38

(a) $6! = 720$ #

(b) $2^3 \cdot 3! = 48$ #

(c) $3! \cdot 3! = 36$ #

#1.25


MATLAB R2020b - academic use
HOME
PLOTS
APPS
Current Folder
HW1_22.m
HW1_25.m
HW1_30.m
Command Window
>> HW1_25
"mean = " "33.31"
"median = " "26.35"
"trimmed mean = " "30.9708"
comment: trimmed mean 介於 median 跟 mean 之間
由圖形可以看出資料偏右 所以我們常用 trimmed mean 來取得較可靠的資料
>>
Details
Select a file to view details

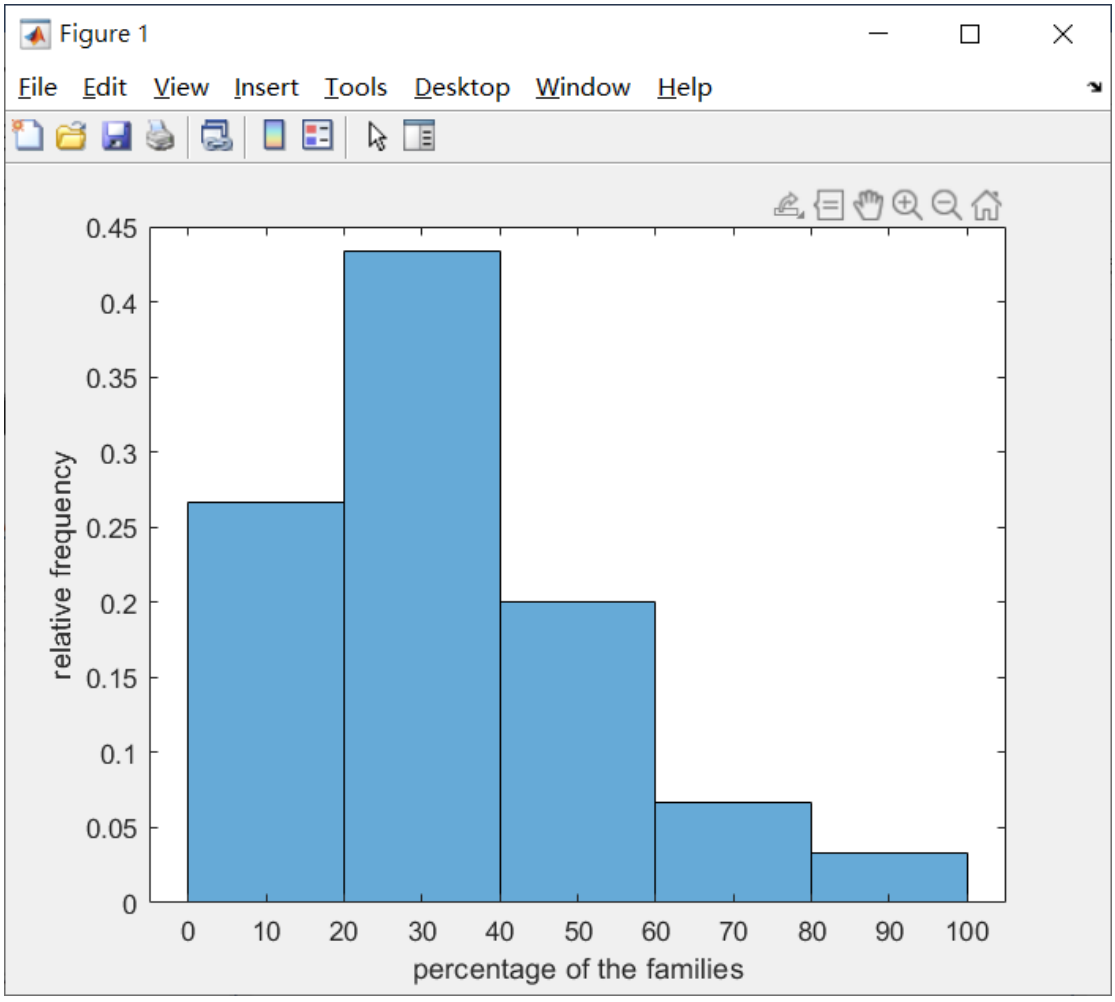


Figure 1
File Edit View Insert Tools Desktop Window Help
relative frequency
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
0 10 20 30 40 50 60 70 80 90 100
percentage of the families

(d) trimmed mean 介於 median 跟 mean 之間
由圖形可以看出資料偏右 所以我們常用 trimmed mean 來取得較可靠的資料

#1.30