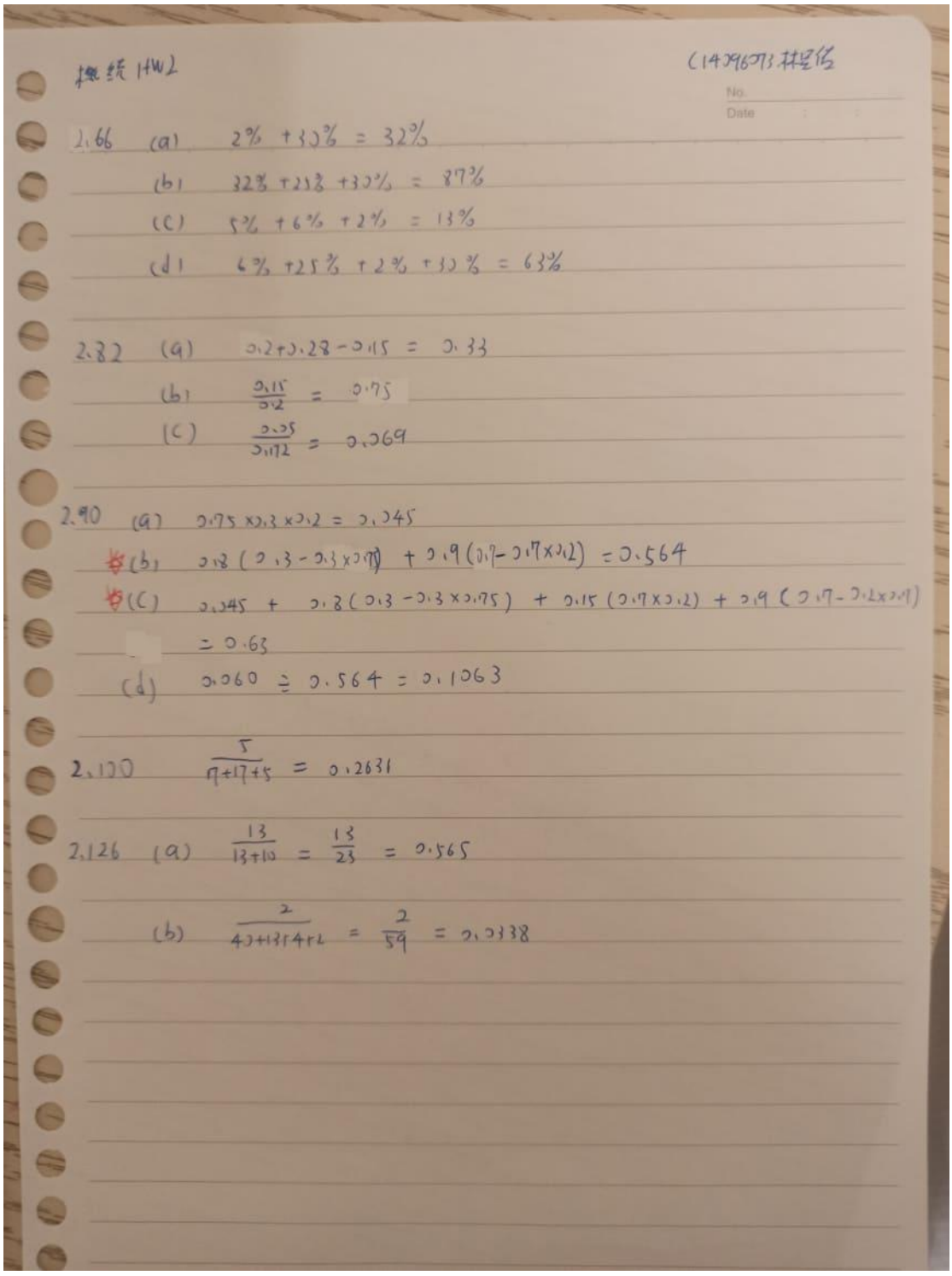


概統 HW2 C14096073 林昱佑

No.
Date

2.66 (a) $2\% + 30\% = 32\%$

(b) $32\% + 25\% + 30\% = 87\%$

(c) $5\% + 6\% + 2\% = 13\%$

(d) $6\% + 25\% + 2\% + 30\% = 63\%$

2.82 (a) $0.2 + 0.28 - 0.15 = 0.33$

(b) $\frac{0.15}{0.2} = 0.75$

(c) $\frac{0.05}{0.172} = 0.069$

2.90 (a) $0.75 \times 0.3 \times 0.2 = 0.045$

(b) $0.8(0.3 - 0.3 \times 0.75) + 0.9(0.7 - 0.7 \times 0.2) = 0.564$

(c) $0.045 + 0.8(0.3 - 0.3 \times 0.75) + 0.15(0.7 \times 0.2) + 0.9(0.7 - 0.2 \times 0.7)$
$= 0.63$

(d) $0.060 \div 0.564 = 0.1063$

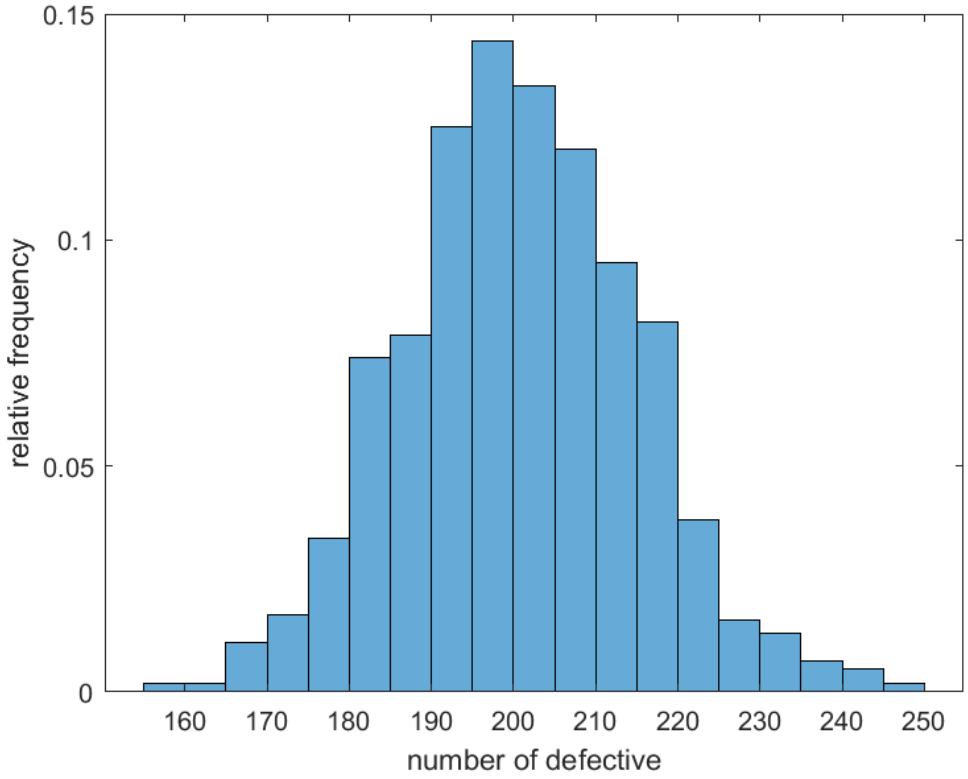
2.100 $\frac{5}{7+17+5} = 0.2631$

2.126 (a) $\frac{13}{13+10} = \frac{13}{23} = 0.565$

(b) $\frac{2}{40+13+4+2} = \frac{2}{59} = 0.0338$

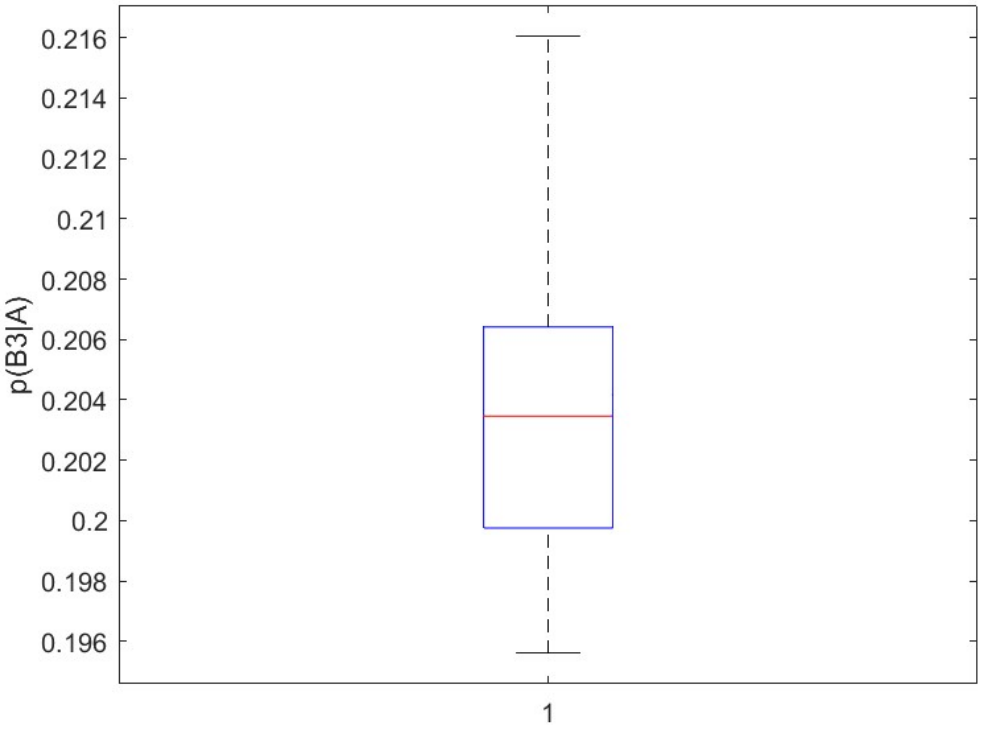
Matlab

1.(b)



1.(c)

模擬 10 次後，取他們的平均和課本中算出的數值很接近(基本上在±0.01 內)，而大部分的分布情形也與課本算出的值(約 0.2040)很靠近(由 25 百分位數與 75 百分位數的值推論)。


0.216
0.214
0.212
0.21
0.208
0.206
0.204
0.202
0.2
0.198
0.196
p(B3|A)
1