

1.20

(a)

stem	Leaf	Frequency
0*	34	2
0.	5666777777889999	17
1*	0000001223333344	16
1.	5566788899	10
2*	034	3
2.	7	1
3*	2	1

(b)

class interval	class midpoint	Frequency, f	Relative Frequency
0~4	2	2	$\frac{2}{50} = 0.04$
5~9	7	17	$\frac{17}{50} = 0.34$
10~14	12	16	$\frac{16}{50} = 0.32$
15~19	17	10	$\frac{10}{50} = 0.20$
20~24	22	3	$\frac{3}{50} = 0.06$
25~29	27	1	$\frac{1}{50} = 0.02$
30~34	32	1	$\frac{1}{50} = 0.02$



1.20 (d)

$\because n=50$, n is even

$$\therefore \bar{x} = \frac{1}{2}(x_{\frac{n}{2}} + x_{\frac{n}{2}+1}) = \frac{1}{2}(x_{25} + x_{26}) = \frac{1}{2}(10+11) = 10.5 \#$$

A: 10.5

2.10

(a) $S = \{FFF, FFN, FNF, NFF, FNN, NFN, NNF, NNN\} \#$

(b) $E = \{FFF, FFN, FNF, NFF\}$

(c) second river is always save for fishing.

2.20

(a) region 6

(b) region 2

(c) regions 5 and 6 together

(d) regions 4, 5, 7 and 8 together

2.38

(a) $6! = 6 \times 5 \times 4 \times 3 \times 2 \times 1 = 720 \#$

A: 720

(b) $3! = 3 \times 2 \times 1 = 6$

$$2! = 2 \times 1 = 2$$

$$6 \times 2 \times 2 \times 2 = 48 \#$$

A: 48

(c) $3 \times 2 \times 1 \times 3 \times 2 \times 1 = 36 \#$

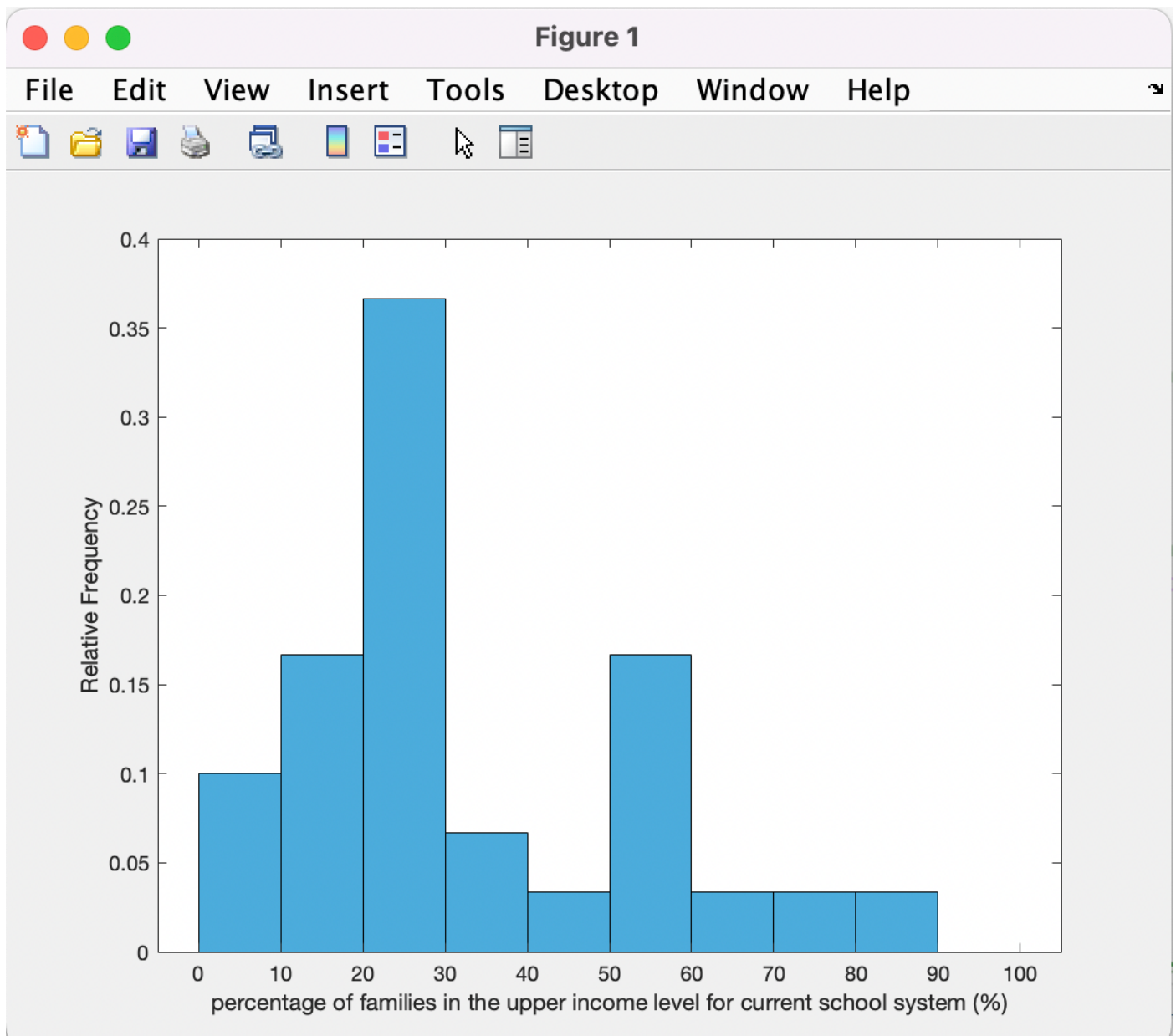
A: 36

1.25

(a) Sample mean: 33.31

(b) Sample median: 26.35

(c)



(d) 10% trimmed mean: 30.970833

可以發現在 10% trimmed mean 和 sample mean 與 sample median 的比較中，最大的是 sample mean，接著中間的是 10% trimmed mean，最小的是 sample median。再去掉 largest 10%和 smallest 10%後的 10% trimmed mean 明顯比 sample mean 小，因此我們可以推測這些資料可能有較大的值在其中。

1.30

