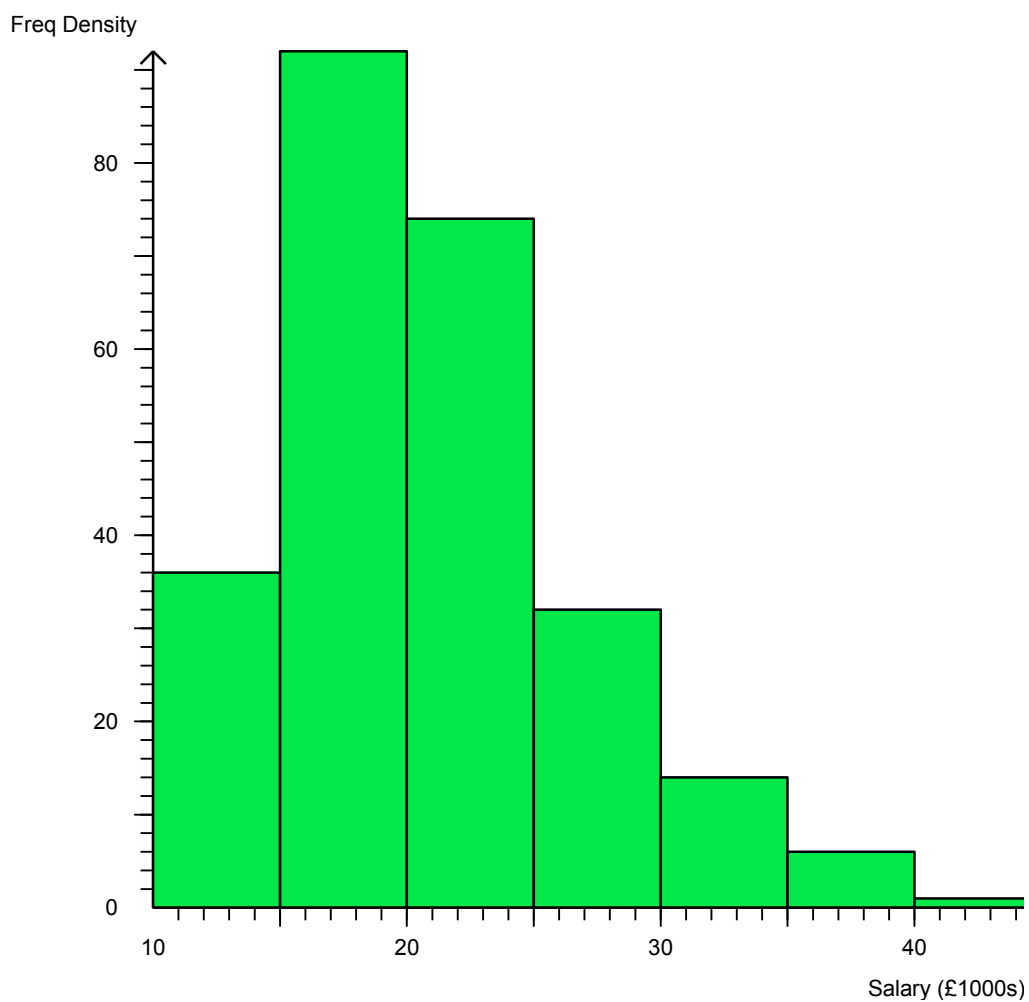


Grouped frequency distributions, histograms – Answers

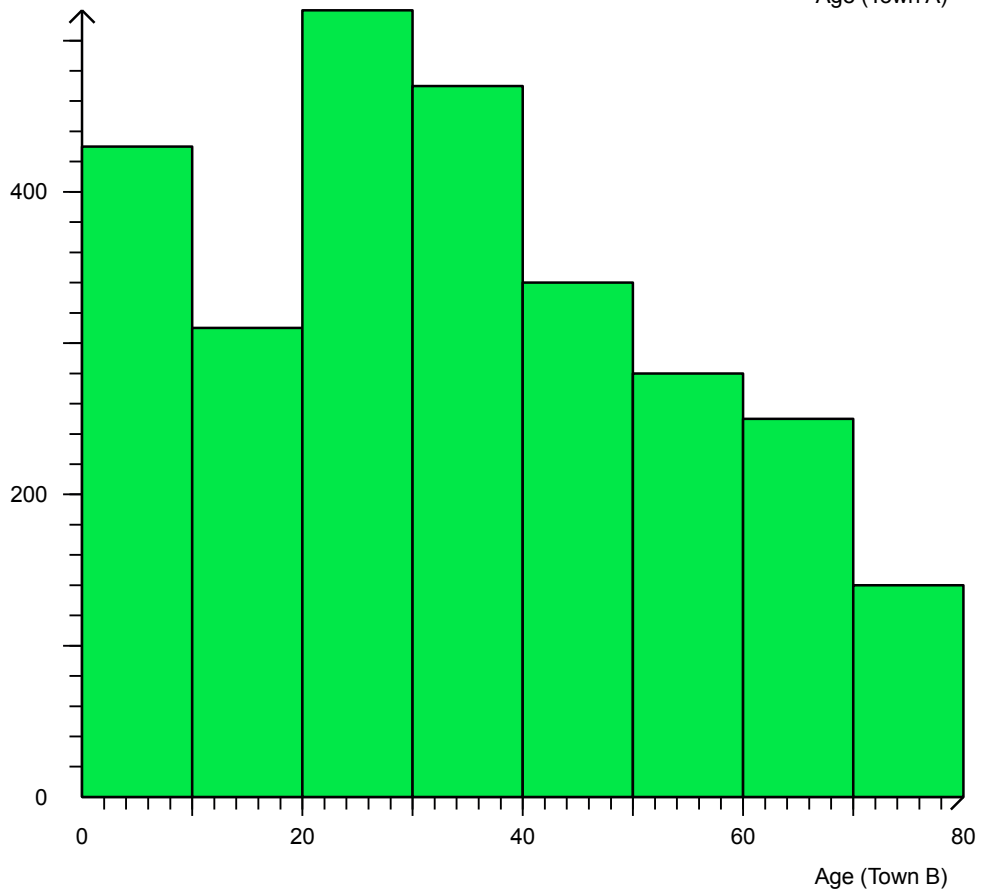
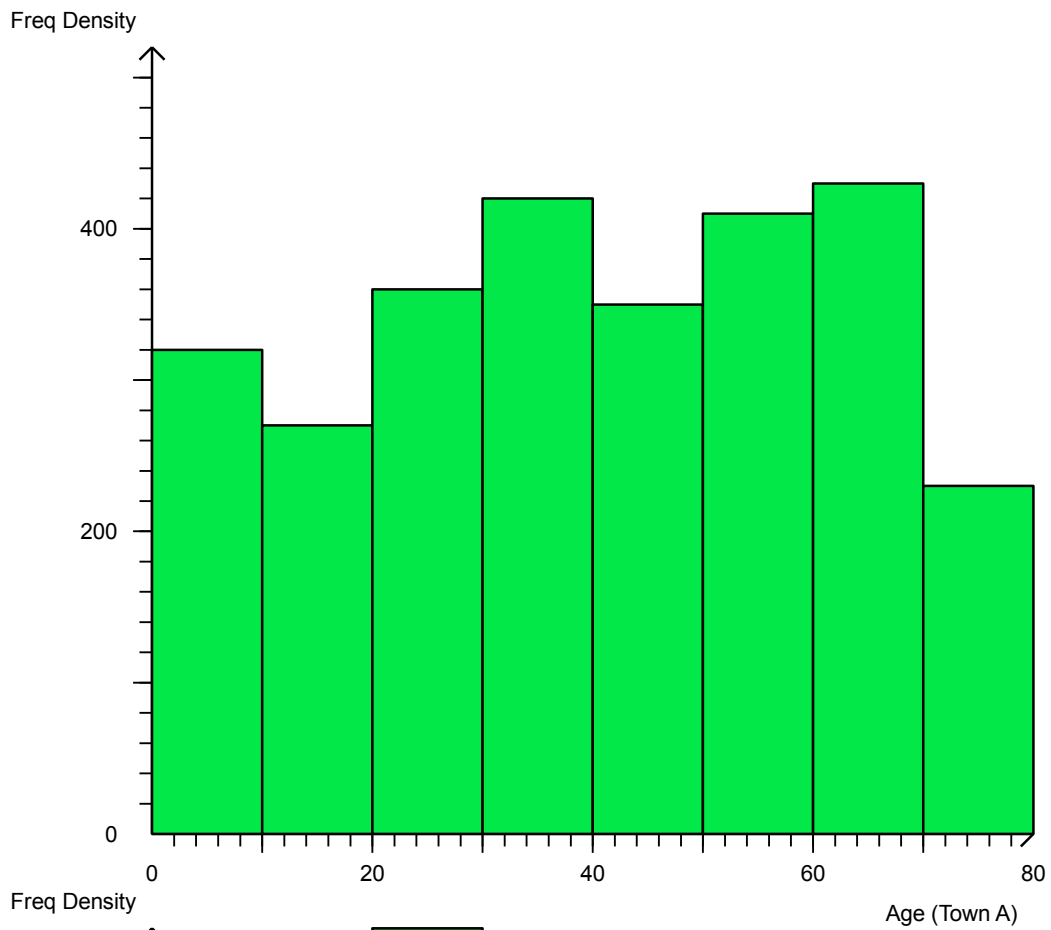
Grouped frequency distributions and histograms

1) (a)



(b) The histogram has a positive skew showing how most employees are bunched in the lower salary bands.

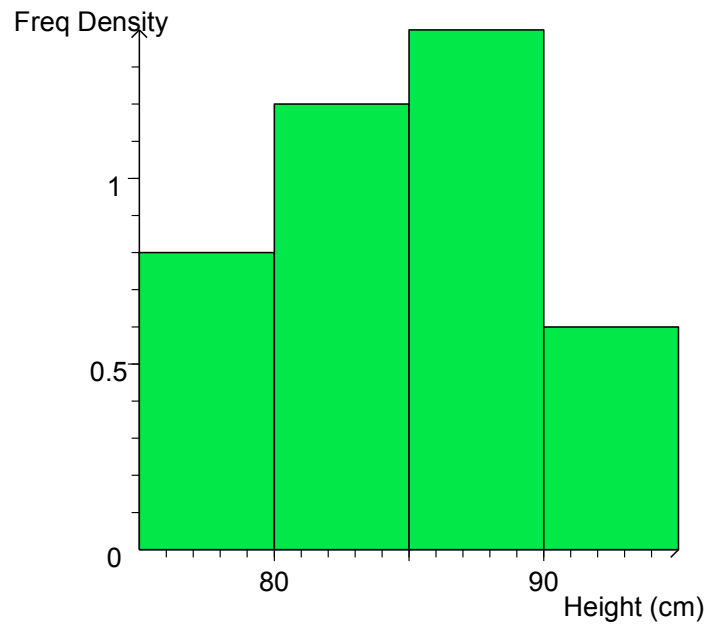
- 2) (a)
- (b) The 20-30 class
- (c) Town A: mean age 40.4
- Town B: mean age 34.2
- (d) Town A's



distribution of ages is fairly even, whereas Town B is skewed towards lower age groups, particularly 20s and 30 year olds. Maybe Town B is a university town, and town A is a seaside town?

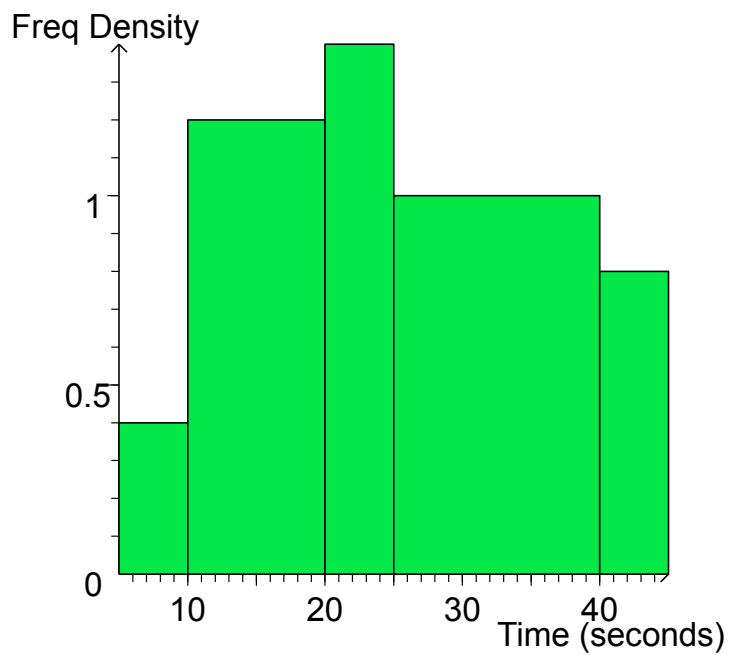
3)

Class Interval	Boundaries	Class Width	Tally	Frequency
75 - 80	$75 \leq x < 80$	5		4
80 - 85	$80 \leq x < 85$	5		6
85 - 90	$85 \leq x < 90$	5		7
90 - 95	$90 \leq x < 95$	5		3



Histograms (varying class width)

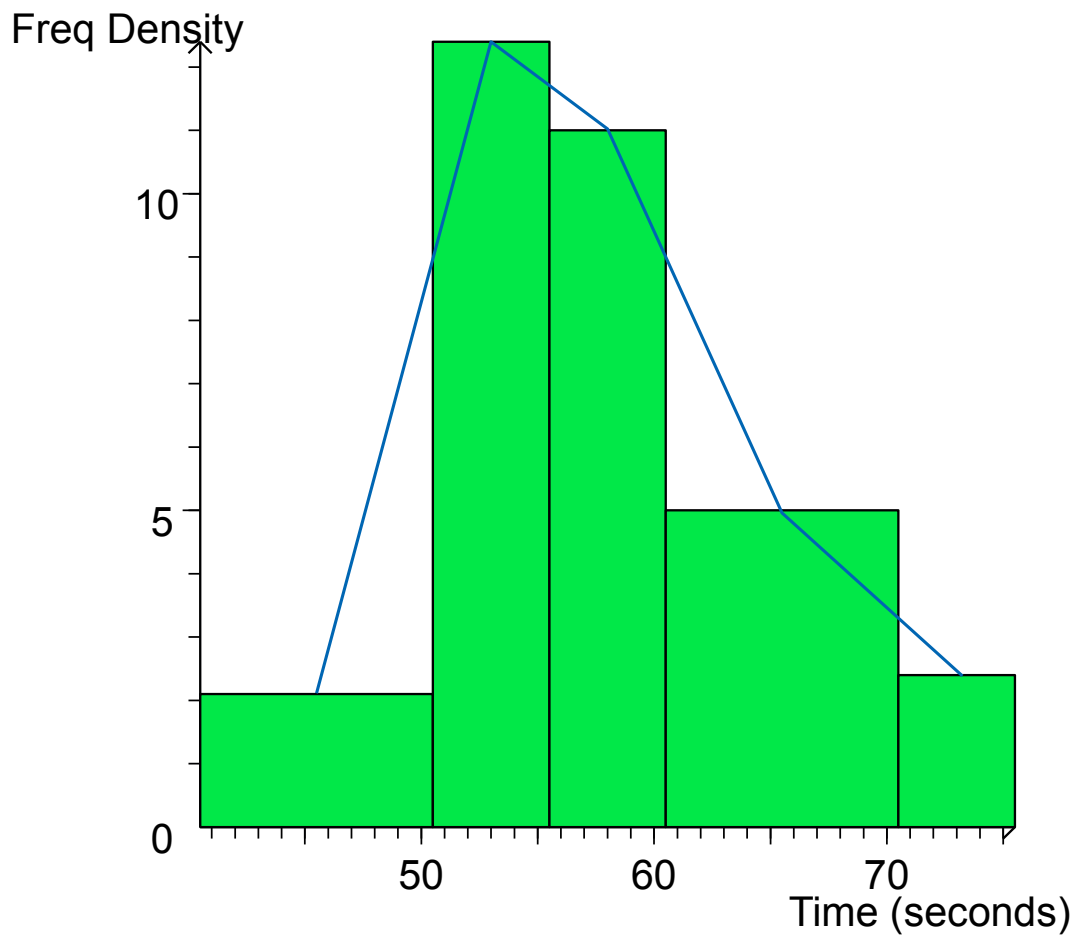
1)



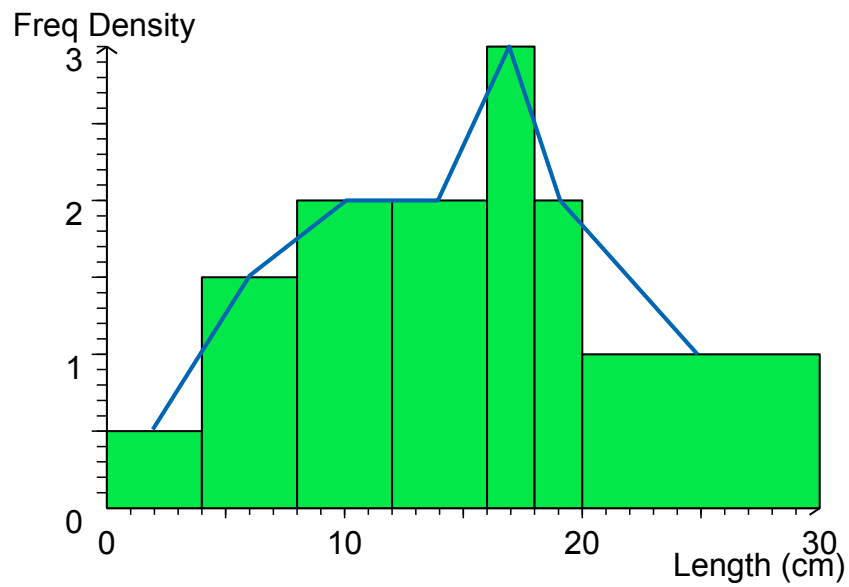
2)

Speed (mph)	0 - 20	20 - 24	24 - 30	30 - 32	32 - 38	38 - 48
No of cars	20	24	24	16	12	10

3)



4)



Length (cm)	0-4	4-8	8-12	12-16	16-20	20-30
Frequency	2	6	8	8	6	10