

Name:

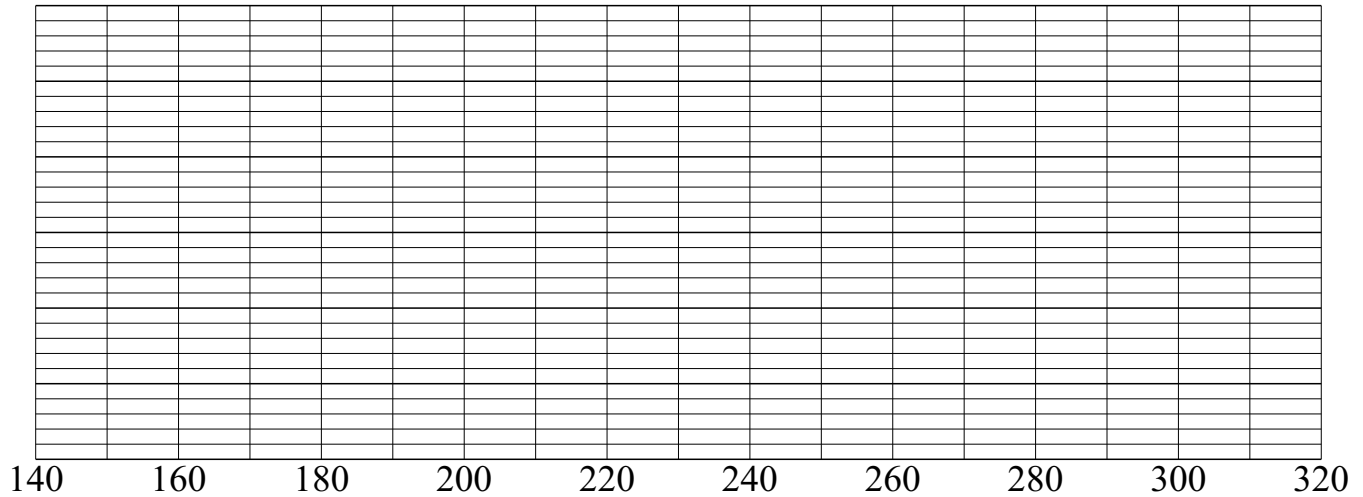
Class/Set:

Histograms

1: Plot the following histogram:

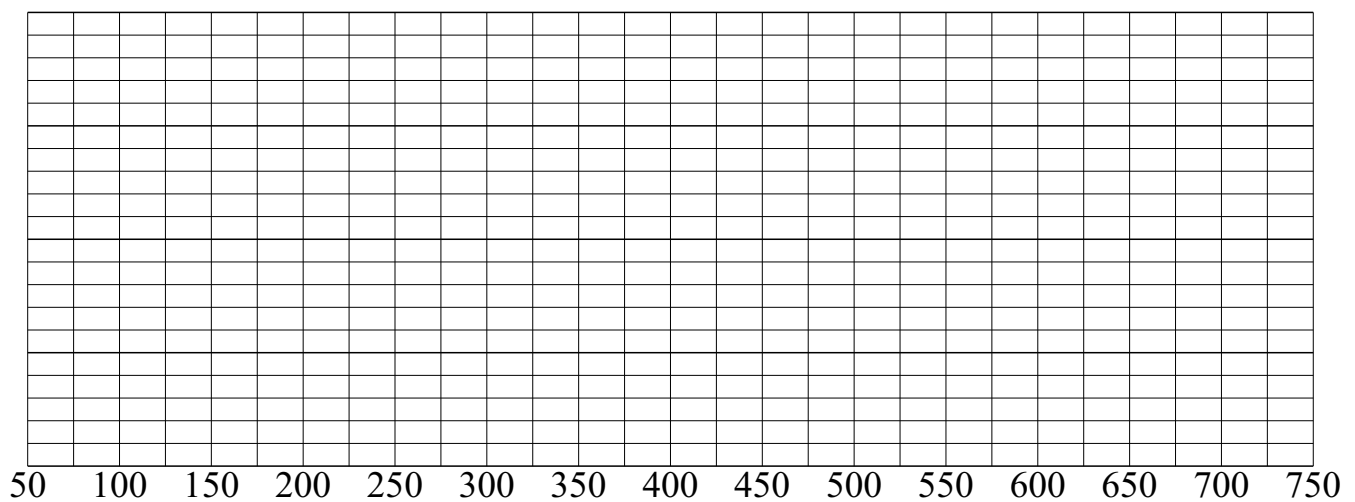
a)

area (cm ²)	140 – 180	180 – 200	200 – 240	240 – 260	260 – 320
frequency	1800	240	2320	1160	3120



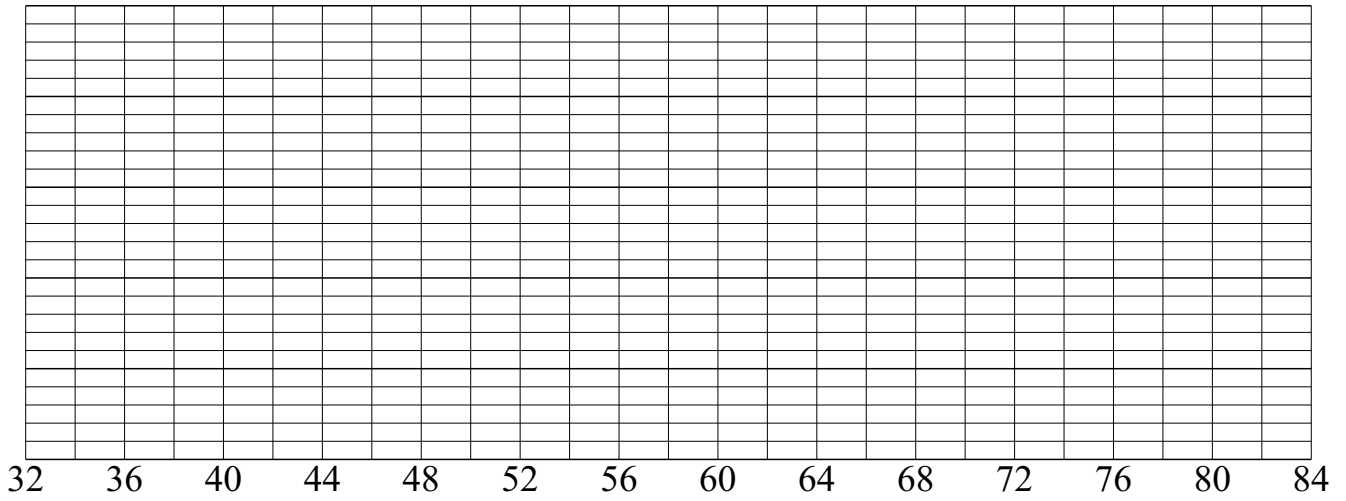
b)

area (m ²)	50 – 200	200 – 300	300 – 500	500 – 650	650 – 750
frequency	705	880	700	330	470



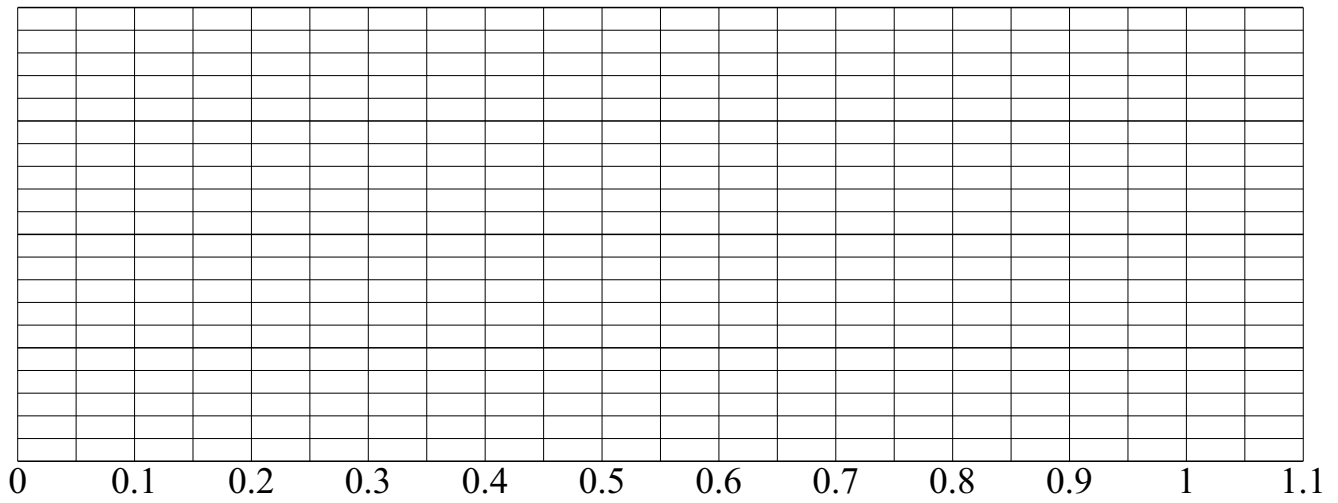
c)

mass (kg)	32 – 36	36 – 48	48 – 52	52 – 64	64 – 84
frequency	960	1920	320	960	4400



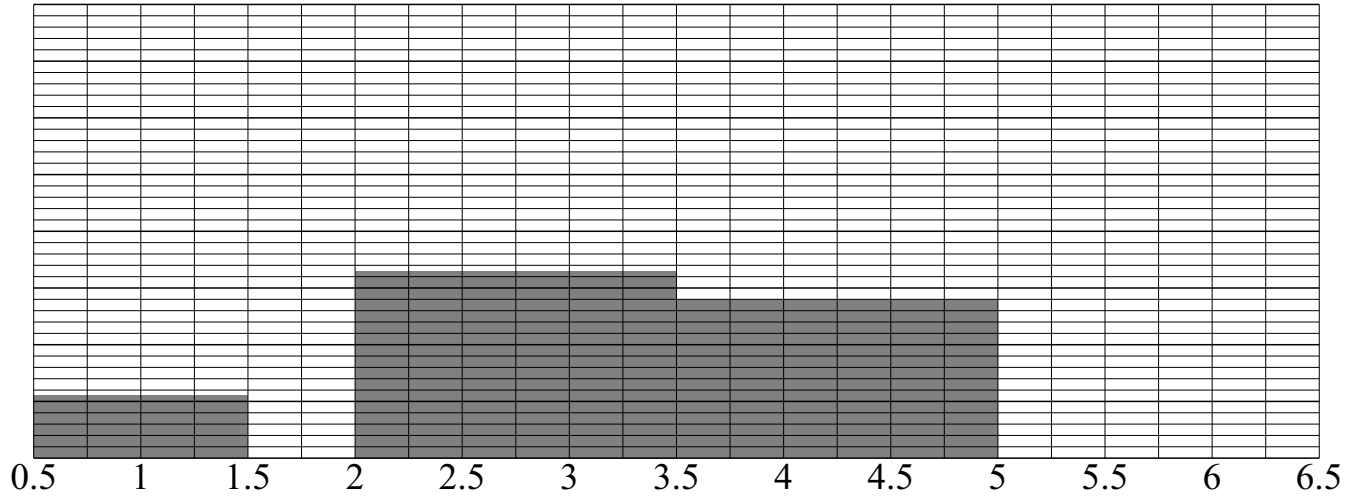
d)

length (cm)	0 – 0.3	0.3 – 0.5	0.5 – 0.8	0.8 – 1.0	1.0 – 1.1
frequency	114	8	54	38	31

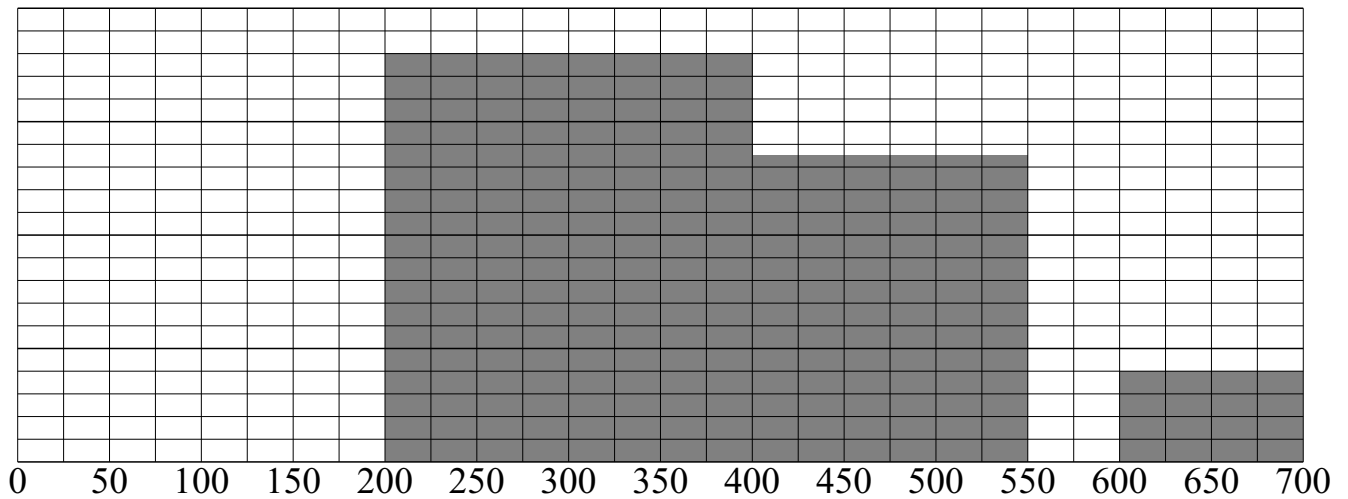


2: Complete the table and the histogram:

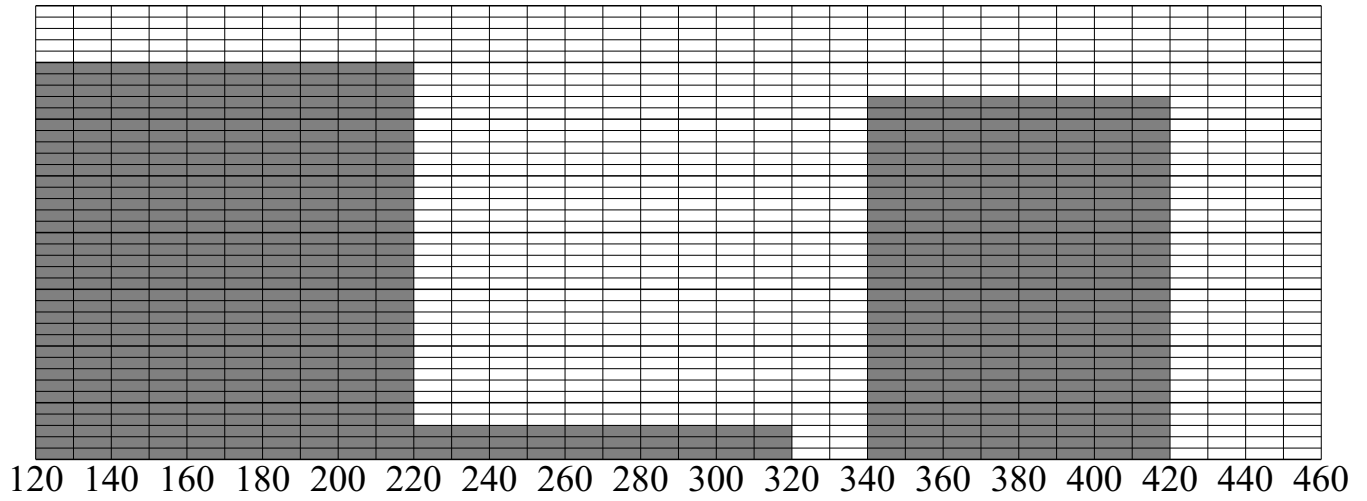
a) age (years)	0.5 – 1.5	1.5 – 2.0	2.0 – 3.5	3.5 – 5.0	5.0 – 6.5
frequency	11	17			102



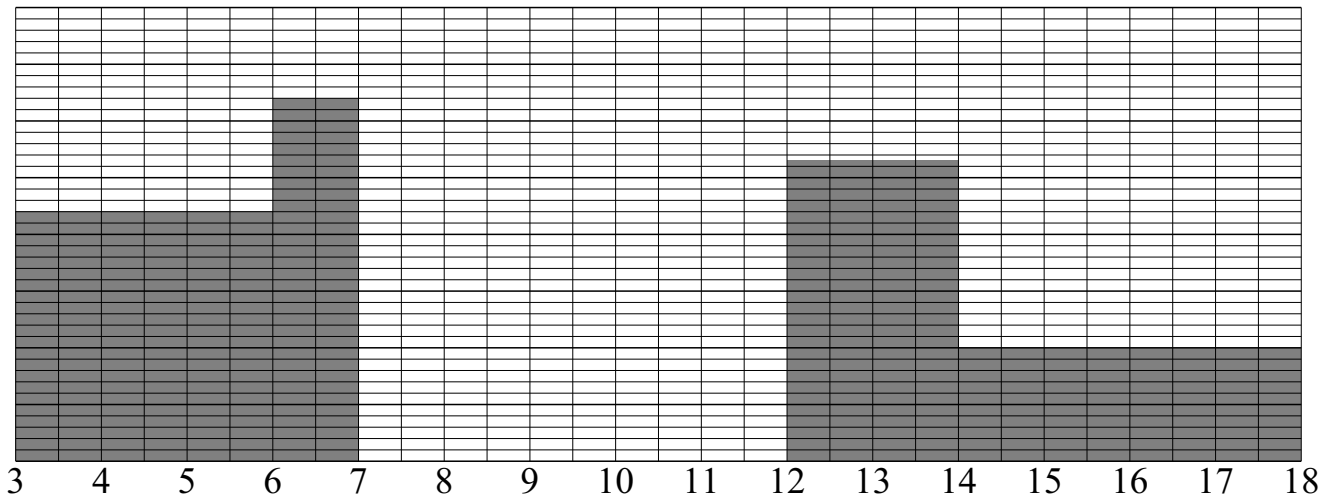
b) diameter (cm)	0 – 200	200 – 400	400 – 550	550 – 600	600 – 700
frequency	66000			1500	8000



c) time (min)	120 – 220	220 – 320	320 – 340	340 – 420	420 – 460
frequency		60	18		16



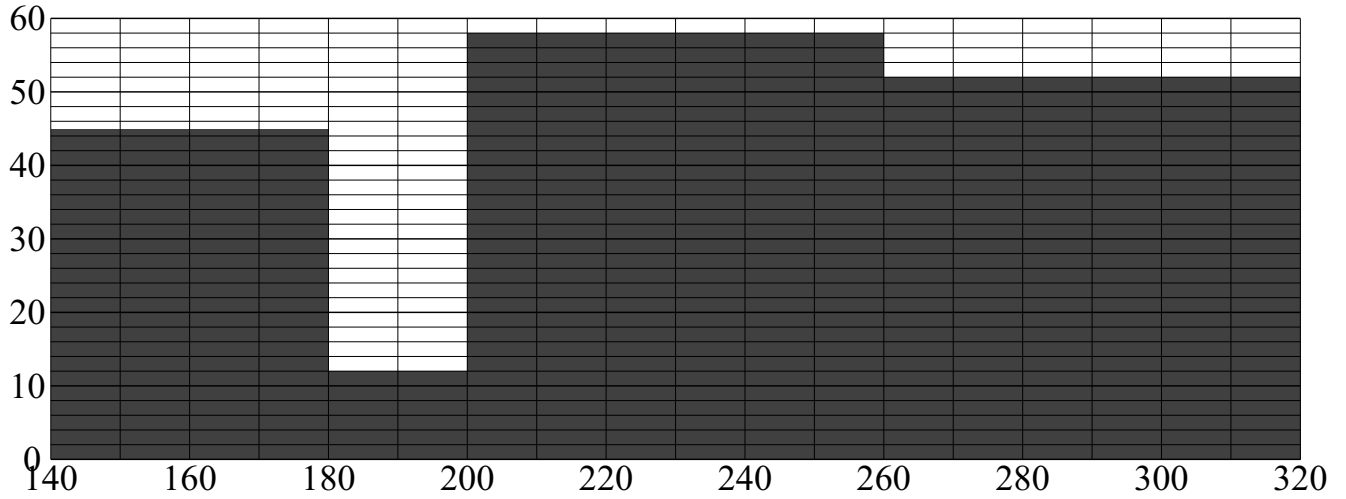
d) volume (m ³)	3 – 6	6 – 7	7 – 12	12 – 14	14 – 18
frequency			2	10.6	



Answers: Histograms

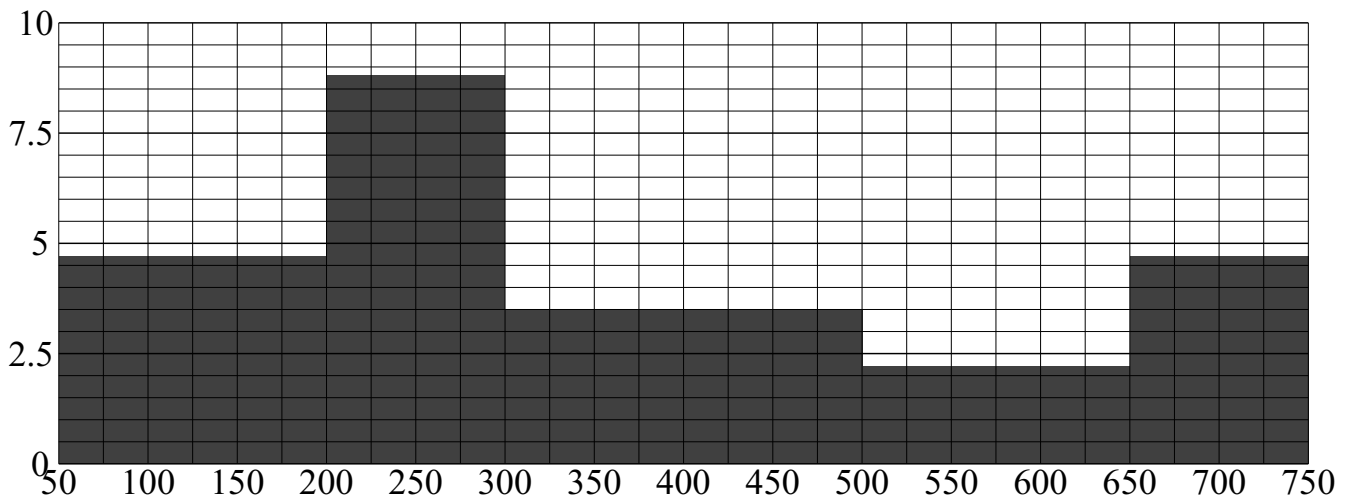
1: a)

area (cm ²)	140 – 180	180 – 200	200 – 240	240 – 260	260 – 320
frequency	1800	240	2320	1160	3120
freq density	45	12	58	58	52

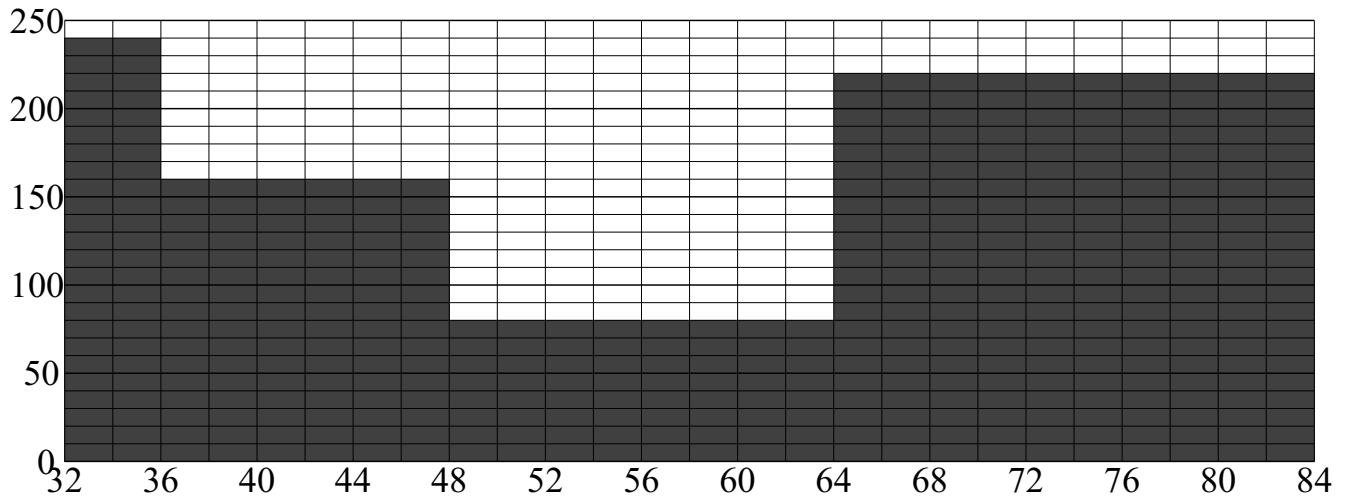


b)

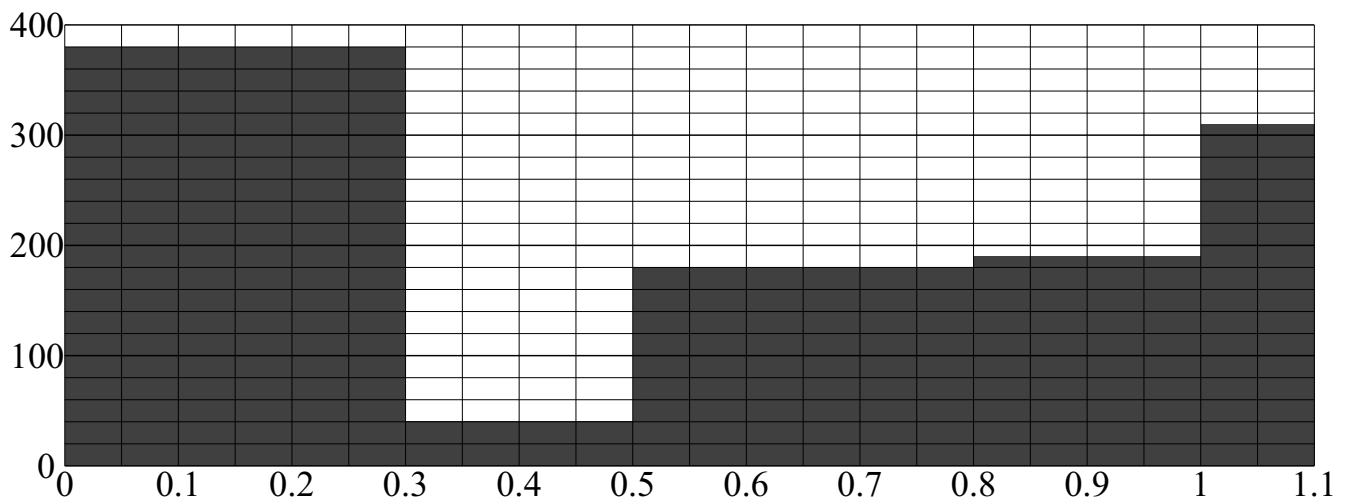
area (m ²)	50 – 200	200 – 300	300 – 500	500 – 650	650 – 750
frequency	705	880	700	330	470
freq density	4.7	8.8	3.5	2.2	4.7



c)	mass (kg)	32 – 36	36 – 48	48 – 52	52 – 64	64 – 84
	frequency	960	1920	320	960	4400
	freq density	240	160	80	80	220

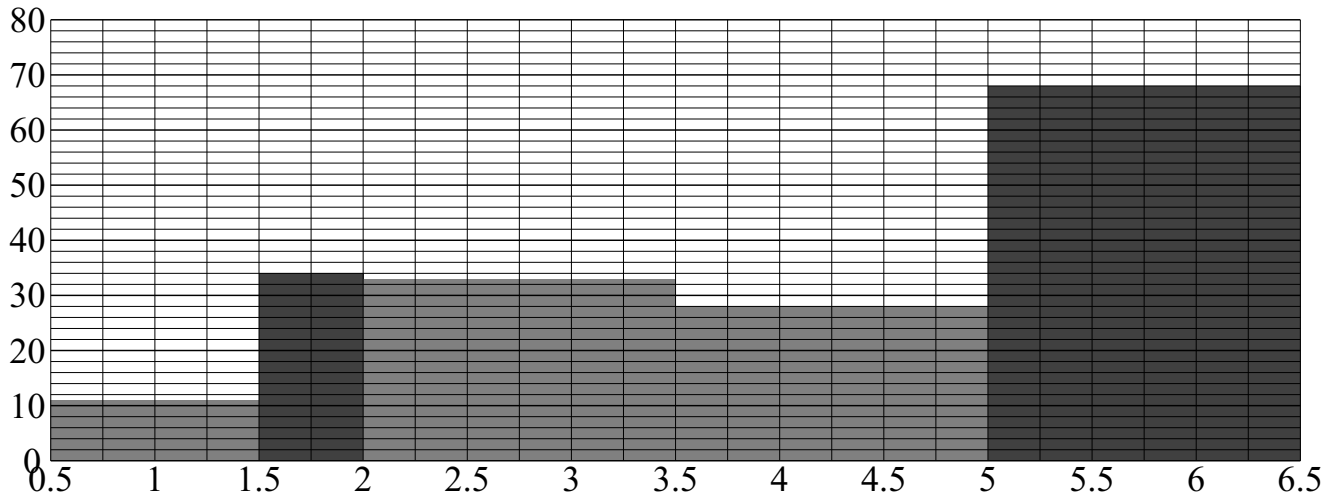


d)	length (cm)	0 – 0.3	0.3 – 0.5	0.5 – 0.8	0.8 – 1.0	1.0 – 1.1
	frequency	114	8	54	38	31
	freq density	380	40	180	190	310



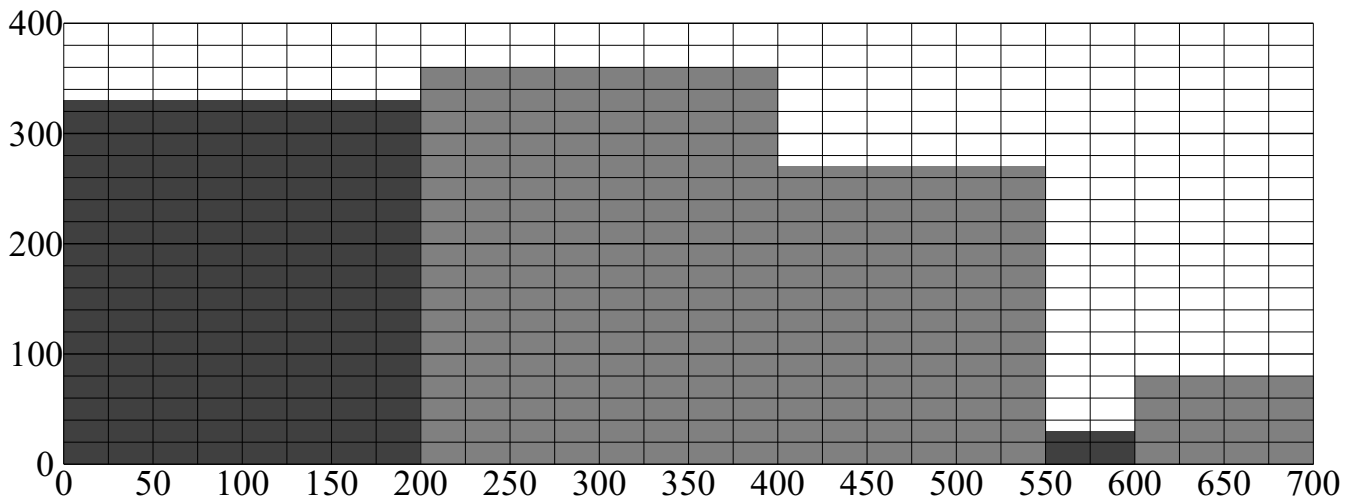
2: a)

age (years)	0.5 – 1.5	1.5 – 2.0	2.0 – 3.5	3.5 – 5.0	5.0 – 6.5
frequency	11	17	49.5	42	102
freq density	11	34	33	28	68

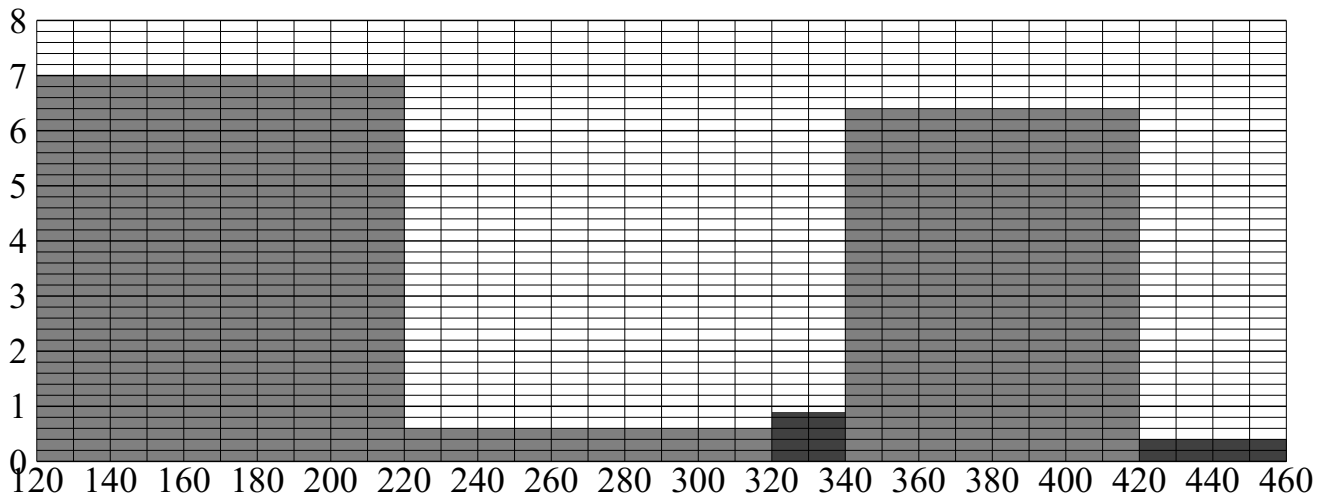


b)

diameter (cm)	0 – 200	200 – 400	400 – 550	550 – 600	600 – 700
frequency	66000	72000	40500	1500	8000
freq density	330	360	270	30	80



c)	time (min)	120 – 220	220 – 320	320 – 340	340 – 420	420 – 460
	frequency	700	60	18	512	16
	freq density	7.0	0.6	0.9	6.4	0.4



d)	volume (m ³)	3 – 6	6 – 7	7 – 12	12 – 14	14 – 18
	frequency	13.2	6.4	2	10.6	8
	freq density	4.4	6.4	0.4	5.3	2.0

