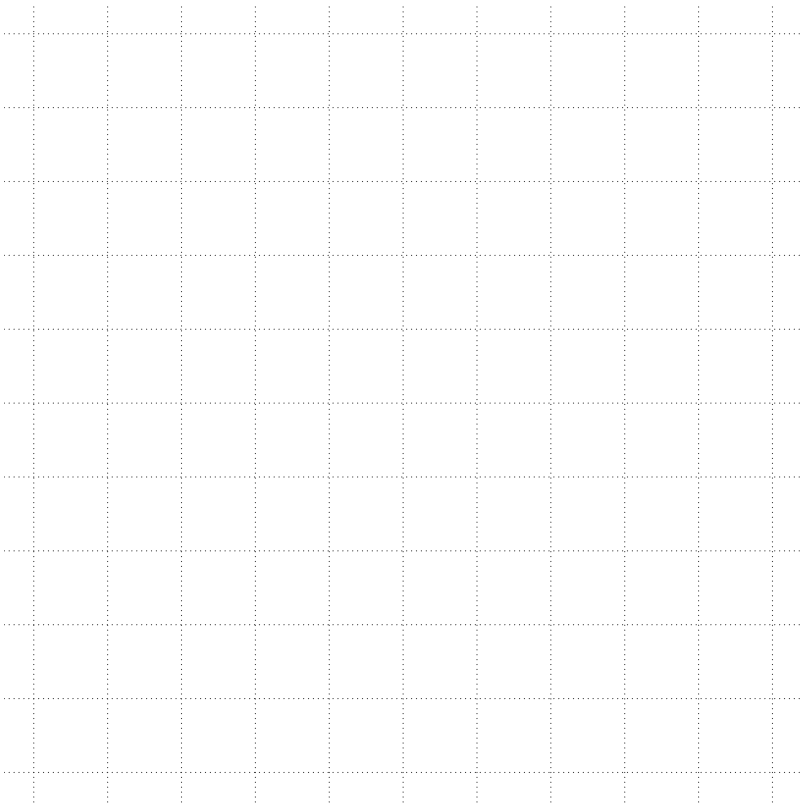


1. **Problem:**

Please make a *relative-frequency table* and a *relative-frequency histogram* from the following (sorted) continuous data by using the supplied classes.

139.63	140.22	142.28	142.38	142.4	142.9	143.26	143.33	143.48	143.85
143.96	144.42	144.96	145.66	146	146.47	148.07	149.12	149.3	149.31
149.42	150.4	150.73	150.98	151.1	152.08	152.22	153.02	153.84	154.03
155.89	156.25	159.96	160.17	160.77					

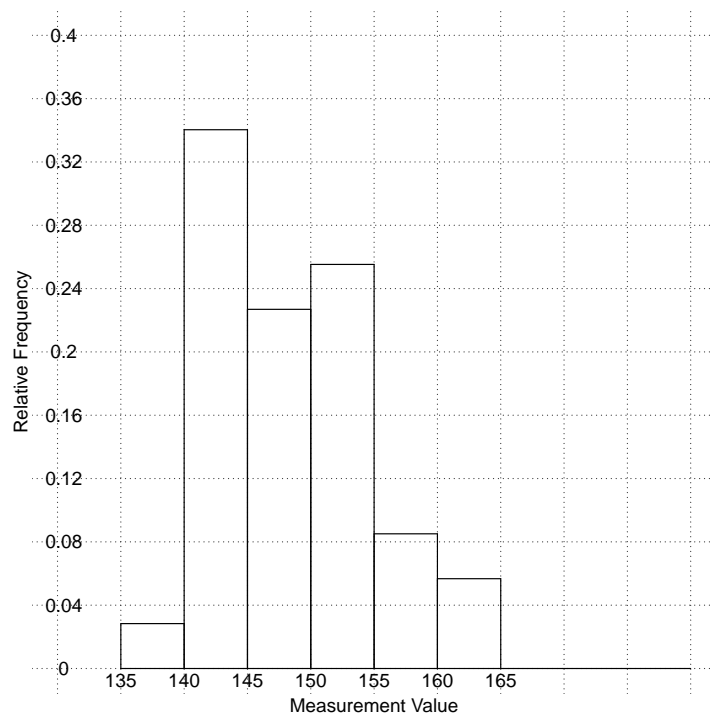
class	frequency	relative frequency
135 - 140		
140 - 145		
145 - 150		
150 - 155		
155 - 160		
160 - 165		



Solution: Make the relative-frequency table.

class	frequency	relative frequency
135 - 140	1	0.0284
140 - 145	12	0.34
145 - 150	8	0.227
150 - 155	9	0.255
155 - 160	3	0.0851
160 - 165	2	0.0567

Make the relative-frequency histogram.

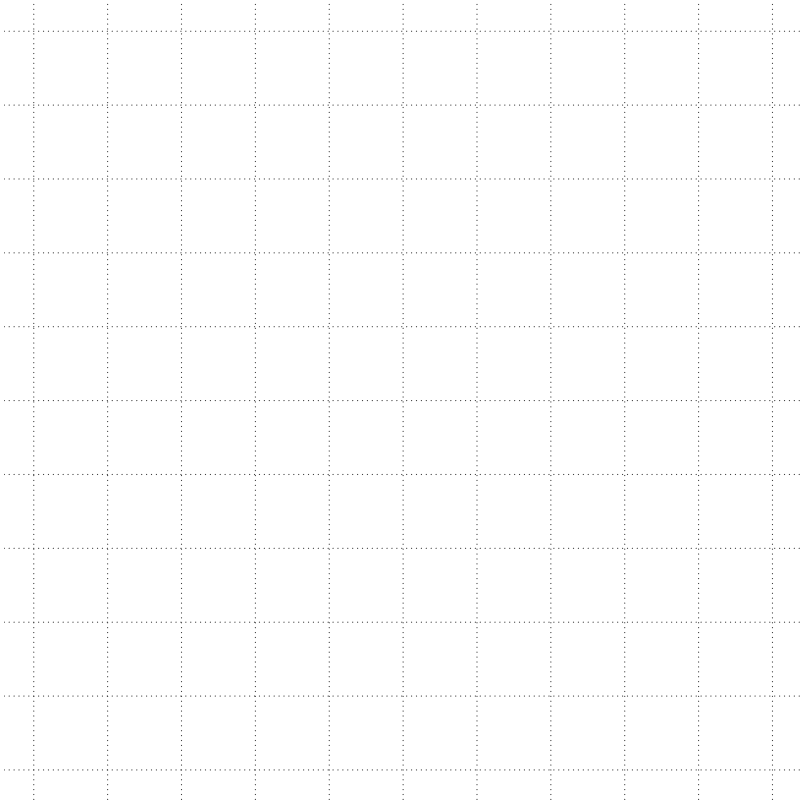


2. **Problem:**

Please make a *relative-frequency table* and a *relative-frequency histogram* from the following (sorted) continuous data by using the supplied classes.

81.316	81.802	82.166	82.652	82.993	84.531	84.595	85.009	85.859	86.644
87.054	88.231	88.296	88.589	88.732	90.901	91.051	91.728	92.135	93.224
94.524	94.898	96.114	96.167	96.465	96.53	96.581	97.365	98.895	

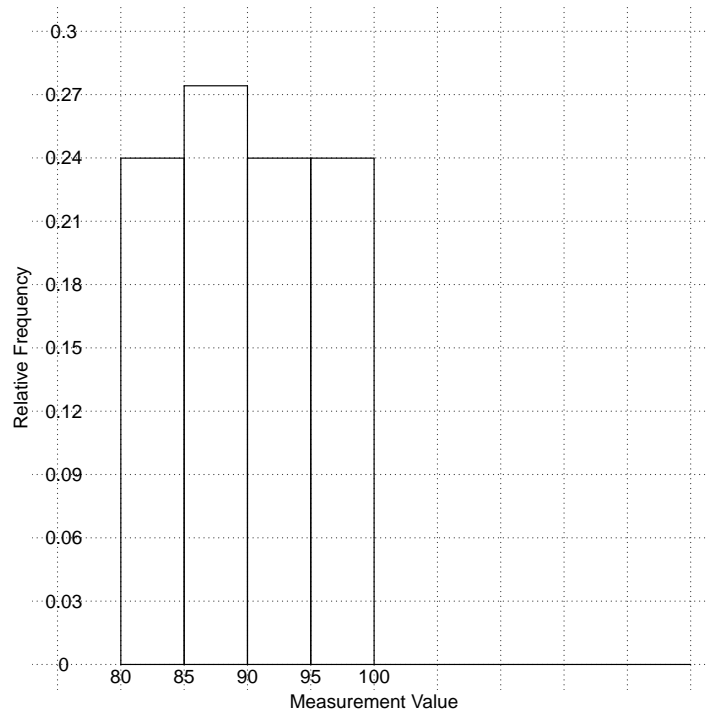
class	frequency	relative frequency
80 - 85		
85 - 90		
90 - 95		
95 - 100		



Solution: Make the relative-frequency table.

class	frequency	relative frequency
80 - 85	7	0.24
85 - 90	8	0.274
90 - 95	7	0.24
95 - 100	7	0.24

Make the relative-frequency histogram.

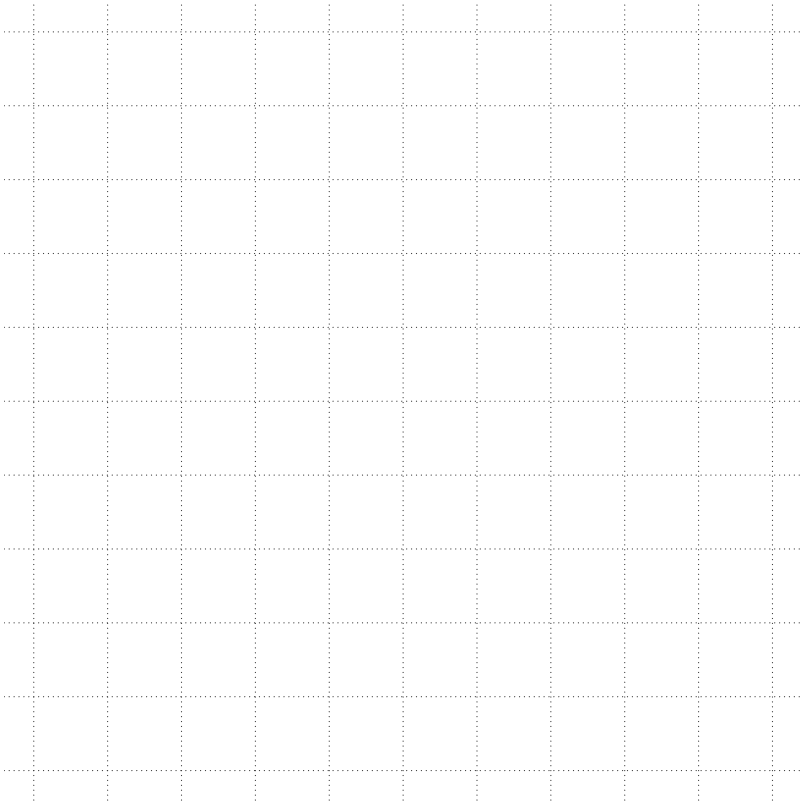


3. **Problem:**

Please make a *relative-frequency table* and a *relative-frequency histogram* from the following (sorted) continuous data by using the supplied classes.

154.64	154.88	155.3	156.47	157.5	157.65	158.28	160.01	160.03	160.3
161.25	161.78	163.2	164.23	164.56	165.61	166.63	167.45	169.22	173.2
174.62	176.5	176.95	177.15						

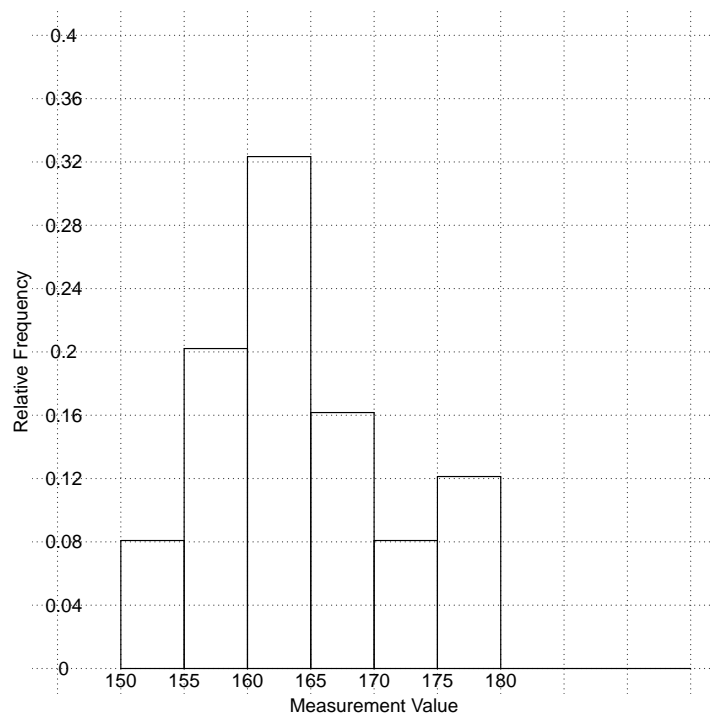
class	frequency	relative frequency
150 - 155		
155 - 160		
160 - 165		
165 - 170		
170 - 175		
175 - 180		



Solution: Make the relative-frequency table.

class	frequency	relative frequency
150 - 155	2	0.0808
155 - 160	5	0.202
160 - 165	8	0.323
165 - 170	4	0.162
170 - 175	2	0.0808
175 - 180	3	0.121

Make the relative-frequency histogram.

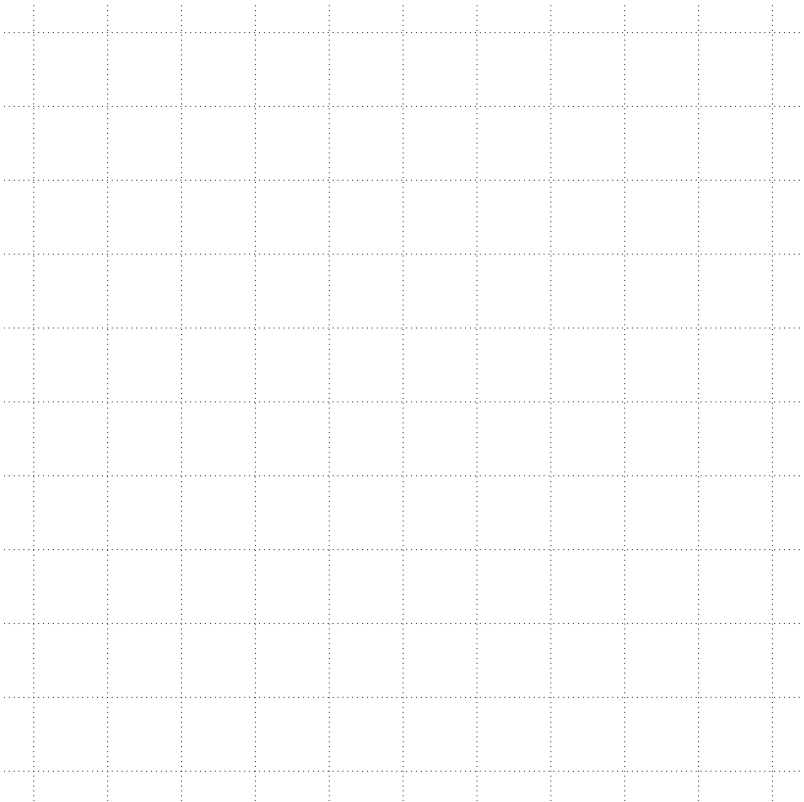


4. **Problem:**

Please make a *relative-frequency table* and a *relative-frequency histogram* from the following (sorted) continuous data by using the supplied classes.

591.87	604.84	606.07	610.52	613.9	615.04	616.03	619.64	620.83	621.12
621.42	625.45	627.42	627.7	630.77	633.81	635.72	636.82	638.83	

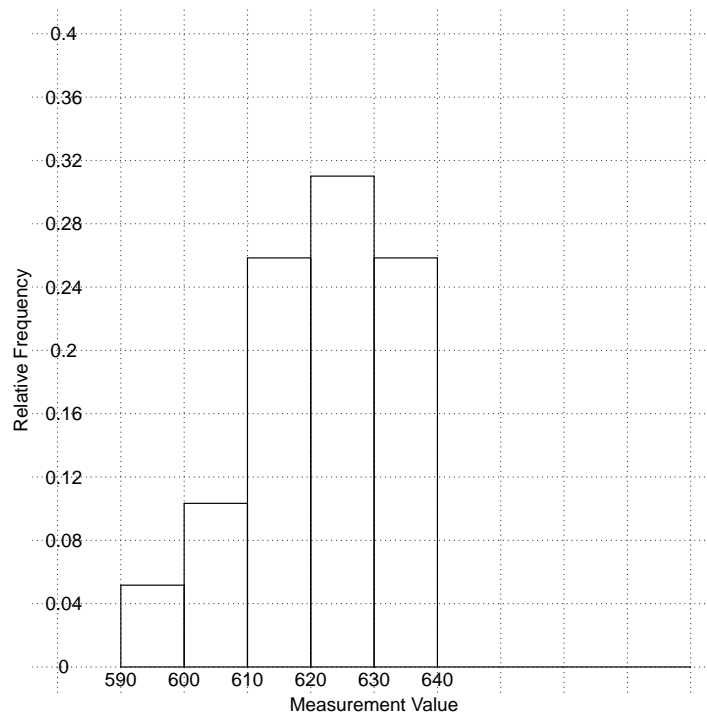
class	frequency	relative frequency
590 - 600		
600 - 610		
610 - 620		
620 - 630		
630 - 640		



Solution: Make the relative-frequency table.

class	frequency	relative frequency
590 - 600	1	0.0517
600 - 610	2	0.103
610 - 620	5	0.258
620 - 630	6	0.31
630 - 640	5	0.258

Make the relative-frequency histogram.

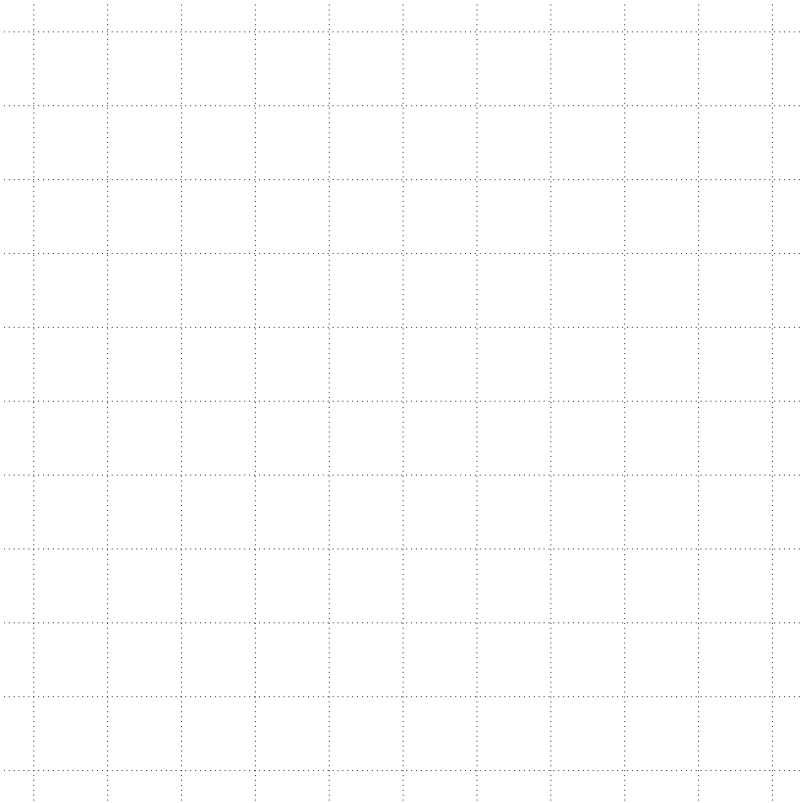


5. **Problem:**

Please make a density table and a density histogram from the following (unsorted) continuous data, using the supplied classes.

164.55	164.55	164.56	164.9	165.02	165.02	165.04	165.12	165.16	165.2
165.32	165.78	165.79	166.43	166.53	166.62	166.64	166.89	167.19	167.7
168.73	168.88	168.92	169	169.17	169.69	169.71	170.05	171.59	173.31
173.42	173.8	174.36	175.35	177.09	178.8	179.56	181.46	181.96	

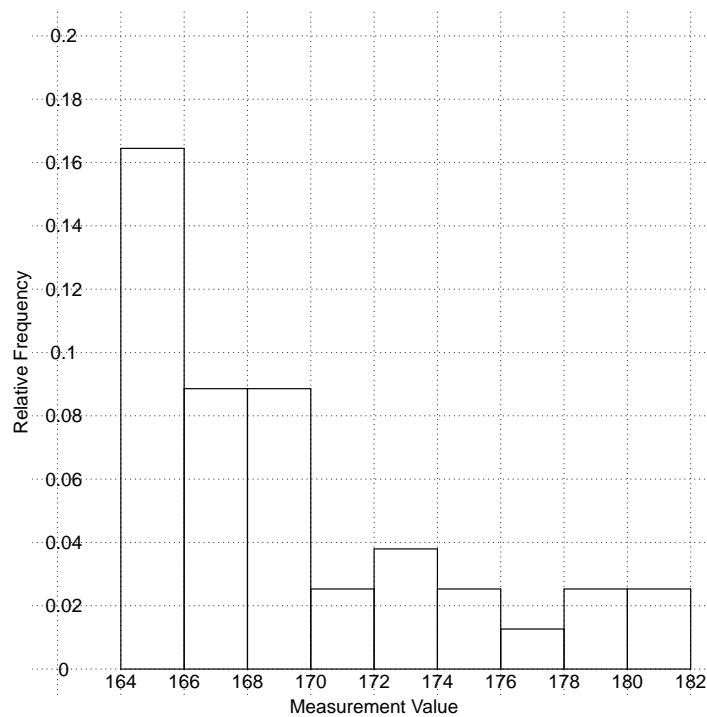
class	frequency	relative frequency	density
164 - 166			
166 - 168			
168 - 170			
170 - 172			
172 - 174			
174 - 176			
176 - 178			
178 - 180			
180 - 182			



Solution: Make the density table. Density is (relative frequency)/(width of class).

class	frequency	relative frequency	density
164 - 166	13	0.329	0.164
166 - 168	7	0.177	0.0886
168 - 170	7	0.177	0.0886
170 - 172	2	0.0506	0.0253
172 - 174	3	0.0759	0.038
174 - 176	2	0.0506	0.0253
176 - 178	1	0.0253	0.0127
178 - 180	2	0.0506	0.0253
180 - 182	2	0.0506	0.0253

Make the density histogram.

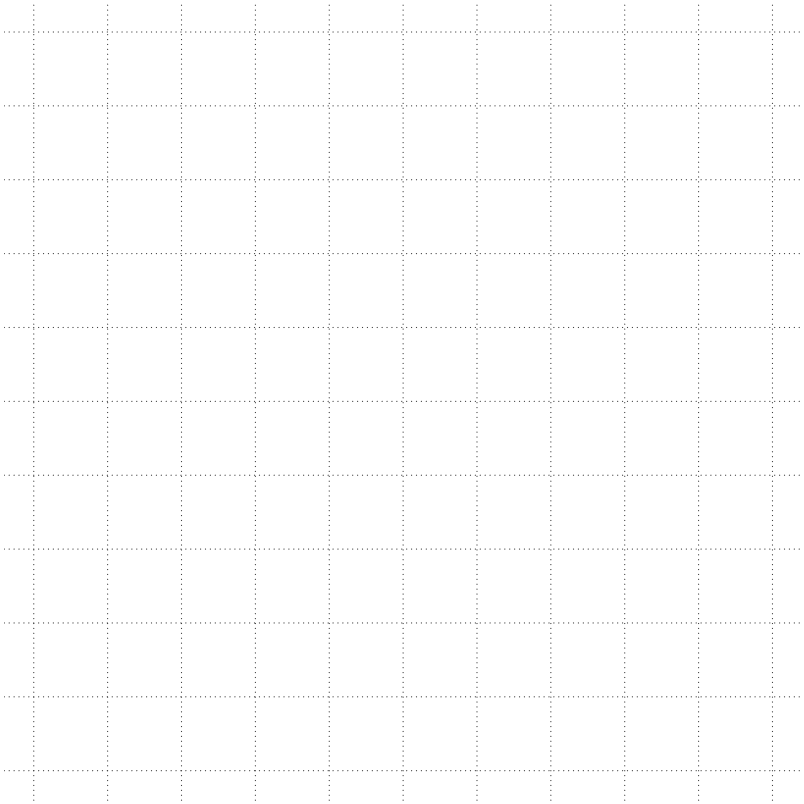


6. **Problem:**

Please make a density table and a density histogram from the following (unsorted) continuous data, using the supplied classes.

947.69	960.59	968.15	970.35	975.07	980.58	984.46	988.39	990.66	991.07
993.38	994.56	999.77	1000.8	1001.8	1007.9	1008.7	1009.9	1012.5	1013.5

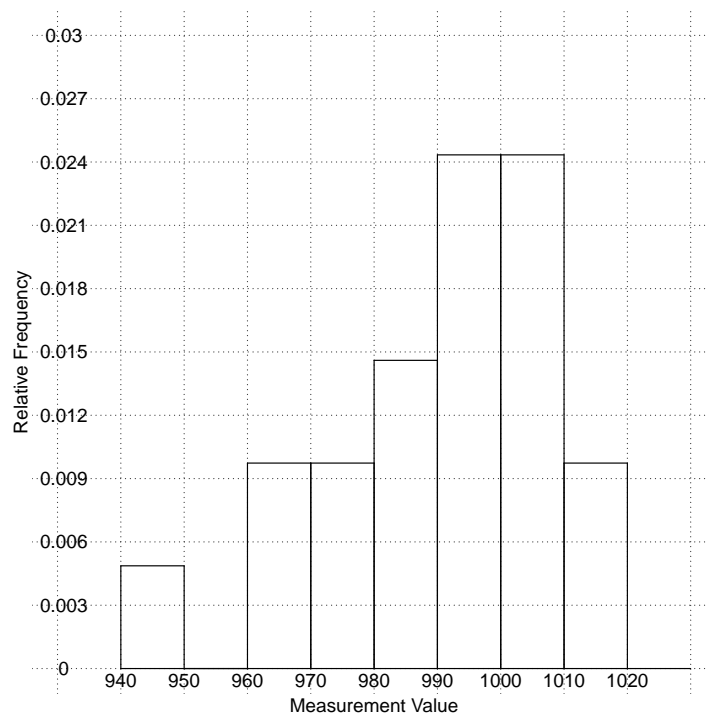
class	frequency	relative frequency	density
940 - 950			
950 - 960			
960 - 970			
970 - 980			
980 - 990			
990 - 1000			
1000 - 1010			
1010 - 1020			



Solution: Make the density table. Density is (relative frequency)/(width of class).

class	frequency	relative frequency	density
940 - 950	1	0.0487	0.00487
950 - 960	0	0	0
960 - 970	2	0.0974	0.00974
970 - 980	2	0.0974	0.00974
980 - 990	3	0.146	0.0146
990 - 1000	5	0.243	0.0243
1000 - 1010	5	0.243	0.0243
1010 - 1020	2	0.0974	0.00974

Make the density histogram.

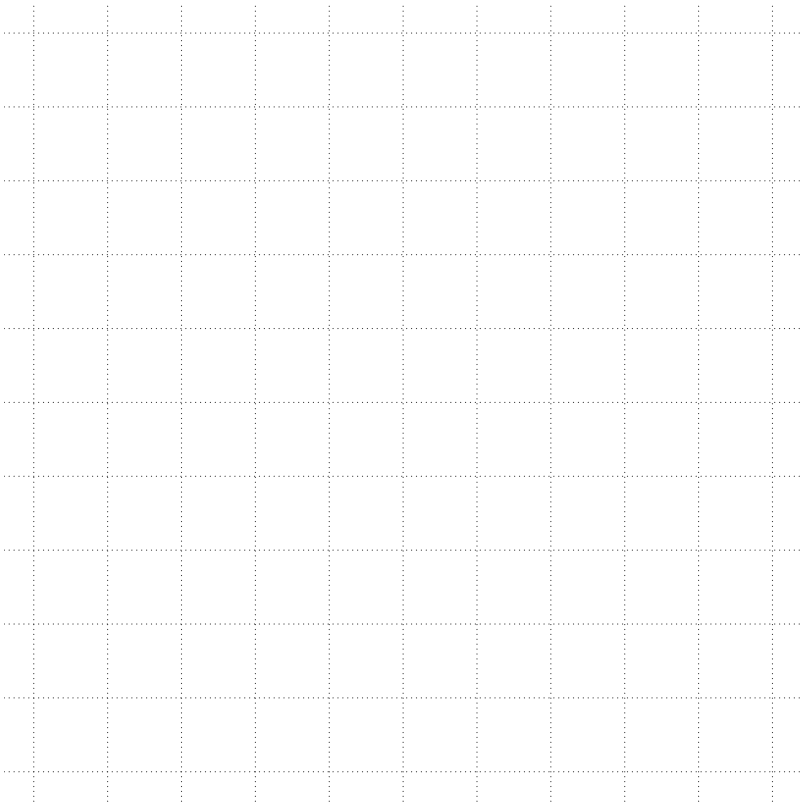


7. **Problem:**

Please make a density table and a density histogram from the following (unsorted) continuous data, using the supplied classes.

183.56	191.44	191.72	194.55	200.46	206.43	209.64	211.74	214.24	215.58
215.8	217.68	218	222.13	222.99	224.67	225.06	225.1	227.34	227.83
227.83	228.85	228.91	229.14	229.2	229.36	229.39			

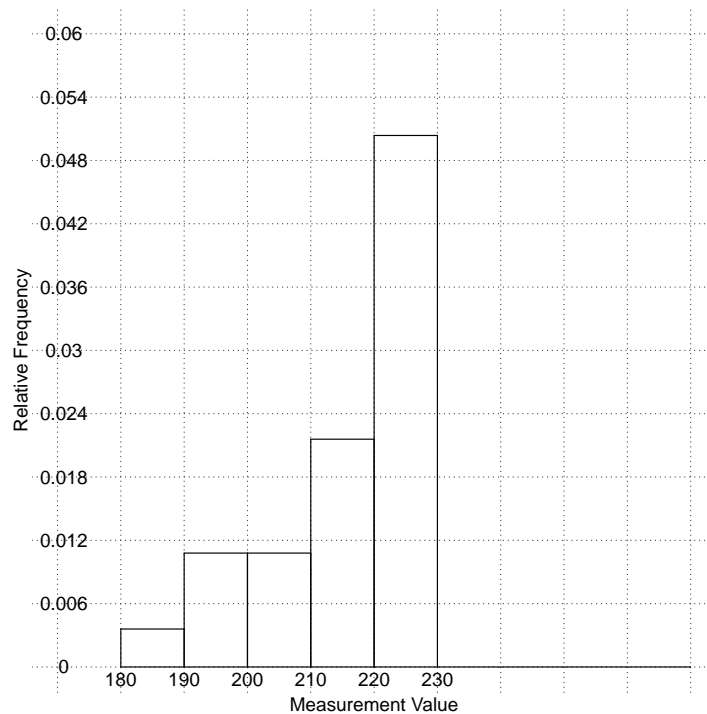
class	frequency	relative frequency	density
180 - 190			
190 - 200			
200 - 210			
210 - 220			
220 - 230			



Solution: Make the density table. Density is (relative frequency)/(width of class).

class	frequency	relative frequency	density
180 - 190	1	0.036	0.0036
190 - 200	3	0.108	0.0108
200 - 210	3	0.108	0.0108
210 - 220	6	0.216	0.0216
220 - 230	14	0.504	0.0504

Make the density histogram.

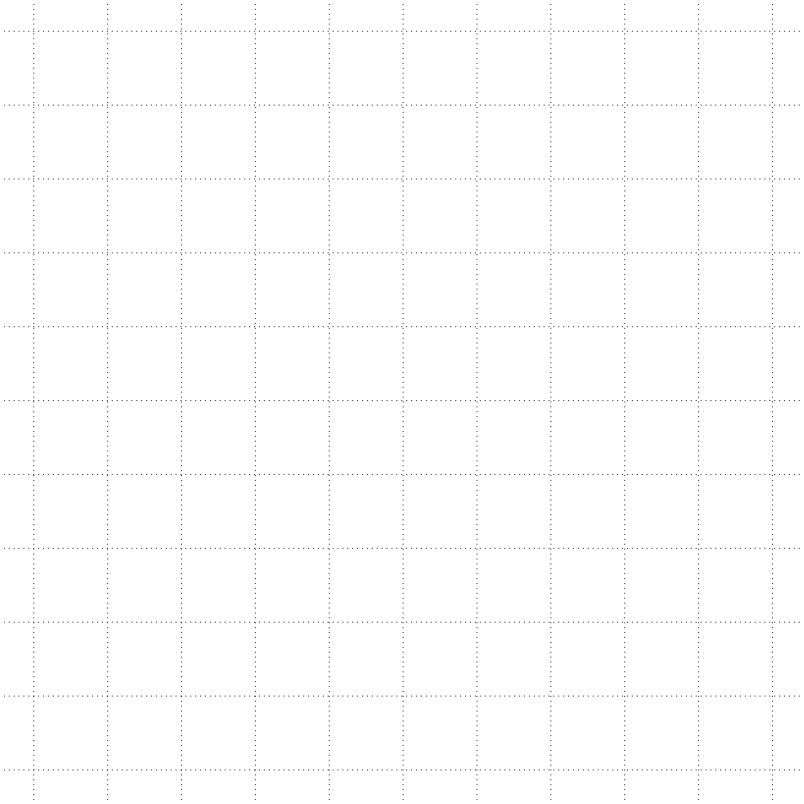


8. **Problem:**

Please make a density table and a density histogram from the following (unsorted) continuous data, using the supplied classes.

350	350.56	350.58	350.69	351.05	351.97	352.18	352.52	352.63	352.81
352.86	353.29	354.52	355.24	356.25	356.37	359.45	360.58	361.47	362.43
362.48	364.3	367.07	367.25						

class	frequency	relative frequency	density
350 - 355			
355 - 360			
360 - 365			
365 - 370			



Solution: Make the density table. Density is (relative frequency)/(width of class).

class	frequency	relative frequency	density
350 - 355	13	0.539	0.108
355 - 360	4	0.166	0.0332
360 - 365	5	0.207	0.0415
365 - 370	2	0.0829	0.0166

Make the density histogram.

