

19. (a) 215

(b) 98

(c) 117

(d) Class width = $\frac{\text{Max} - \text{Min}}{\text{No. of classes}} = \frac{215 - 98}{10} = \frac{117}{10} = 11.7 \approx 12$

(e) Frequency distribution table for weights (in lbs) for college students

Class	Frequency	Relative Frequency	Class Midpoints
98-109	4	0.08	103.5
110-121	10	0.2	115.5
122-133	3	0.06	127.5
134-145	5	0.1	139.5
146-157	6	0.12	151.5
158-169	7	0.14	163.5
170-181	5	0.1	175.5
182-193	6	0.12	187.5
194-205	3	0.06	199.5
206-217	1	0.02	211.5

(g) Weights (in lbs) College students

Stem	Leaf
9	8
10	1 8 8
11	0 2 5 5 6 8 8
12	0 0 0 8 9
13	2 5 7
14	2 3 5 8
15	0 4 4 5 7 8
16	1 2 2 5 7 8
17	0 0 6 6 7
18	3 4 6 8
19	0 1 5 5
20	5
21	5

Key: 12 | 8 = 128 lbs

h) The distribution is ~~mu~~ bimodal. The two most popular classes are separated by one or more classes