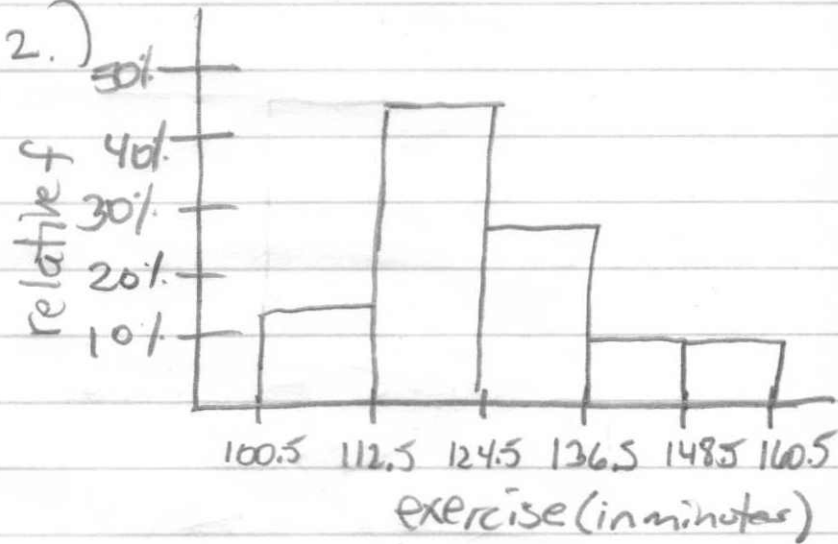


Chapter 2 Review

1.) $CW = 12$

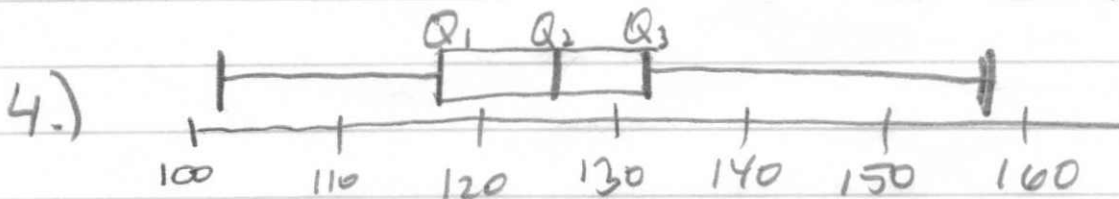
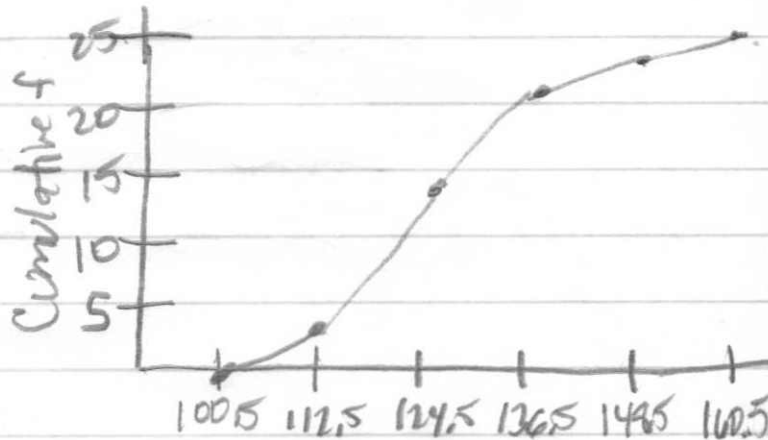
class	f
101-112	3
113-124	11
125-136	7
137-148	2
149-160	2

2.)



3.)

classes	Cumul. f
101-112	3
101-124	14
101-136	21
101-148	23
101-160	25



5# Summary (101, 117.5, 123, 131.5, 157)

5.) $IQR = 14$

$131.5 + 14 \cdot 1.5 = 152.5$ Above 152.5 are outliers

157

6.)

hundreds	units
10	18
11	1 4 6 7 8 9 9
12	0 0 3 3 4 7 7 8
13	1 1 2 5 9 9
14	
15	0 7

7. Skewed right

8. 84th percentile

9. 114

10. 1 2 5 6 7 $\bar{x} = \frac{1+2+5+6+7}{5} = 4,2$

11. 1 2 5 6 7 Median = 5
 ↑

12. midrange $\frac{1+7}{2} = 4$

13.

X	$(x-\bar{x})^2$
1	10,24
2	4,84
5	,64
6	3,24
7	7,84
	<u>26,8</u>

 $S = \sqrt{\frac{26,8}{5-1}} = 2,6$

14.

X	w	Xw
72	10	720
88	10	880
91	10	910
66	10	660
80	10	800
81	50	4050
	<u>100</u>	<u>8020</u>

 $\bar{x} = \frac{8020}{100} = 80,2$

15.

Ages	f	X	X.f	$(X-\bar{X})^2 \cdot f$
20-29	11	24.5	269.5	1189.76
30-39	3	34.5	103.5	.48
40-49	8	44.5	356	737.28
50-59	2	54.5	109	768.32
			<u>838</u>	

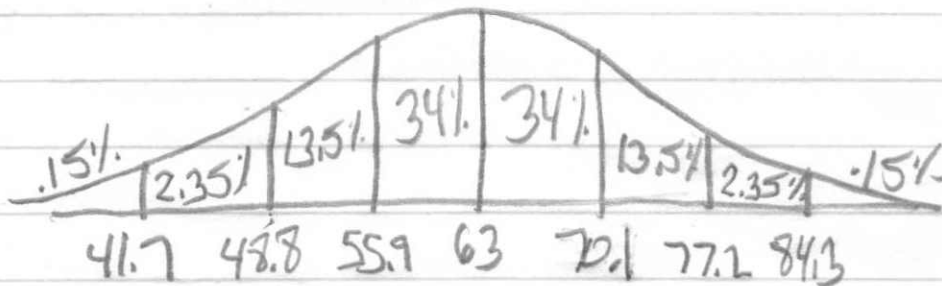
$$S = \sqrt{\frac{2695.84}{23}}$$

$$\bar{X} = \frac{838}{24}$$

$$= 34.9$$

$$S = 10.8$$

16.



17. 48.8 - 77.2

18. 55.9 - 70.1

19. 97.35%

20. $Z = \frac{74 - 63}{7.1} = 1.55$

$$Z = \frac{42 - 63}{7.1} = -2.96 \text{ Unusual Z-score}$$