

Stem & Leaf Plots – Day 3

Unit 8: Statistics

Draw a stem-and-leaf plot for each data set.

1.

Minutes to Run 5 km

42.4	38.5	31	23.8	23	30.6
41.8	31	26	17.3	36.3	38.5
39.1	26.9	30.6	27.7	43.6	25.9
39	30.1	31			

2.

Car Masses (kg)

1,295	1,775	1,790	1,200	1,255	1,765
980	1,610	1,665	1,780	1,145	1,715
1,585	980	1,380	1,135	1,560	1,715
1,730	945	1,290			

3.

Basketball Tournament

School	Appearances	School	Appearances	School	Appearances
Austin Peay	5	Maryland	24	Bucknell	6
Oklahoma State	27	Pennsylvania	23	Wichita State	12
Clemson	10	SE Missouri State	1	UCLA	45
Western Carolina	1	Pacific	9	Oklahoma City	11
Northeastern	8	Oakland	2	Iowa	24

Draw a stem-and-leaf plot for each data set.

4.

Mountain Heights

Name	Feet	Name	Feet	Name	Feet
Skil Brum	24,311	Batura Sar	25,574	Haramosh Peak	24,308
Gongga Shan	24,790	Pumari Chhish	24,580	Gyachung Kang	26,089
Teram Kangri III	24,219	Khunyang Chhish	25,666	Sia Kangri	24,350
Saser Kangri III	24,590	Lupghar Sar	23,622	Gasherbrum II	26,362
Porong Ri	23,924	Malubiting	24,469	Trivor	24,859
Rimo III	23,730				

5.

Monthly Revenue

\$31,840	\$55,600	\$59,990	\$49,480	\$37,610	\$35,960
\$63,440	\$44,230	\$75,410	\$54,660	\$45,520	\$69,320
\$67,180	\$59,160	\$51,720	\$46,850		

6.

Nobel Laureates

Name	Age	Name	Age	Name	Age
Albert Louis Fert	69	John Ernest Walker	56	Paul Josef Crutzen	62
Martin Lewis Perl	68	Hideki Shirakawa	64	John Robin Warren	68
Robert Coleman Richards	59	Myron Samuel Scholes	56	Klaus-Olaf von Klitzing	42
Eric Allin Cornell	39	Paul Maxime Nurse	52	Anthony James Leggett	65
George Andrew Olah	67	Harold Elliot Varmus	49	Richard John Roberts	50
Martin Lee Chalfie	61	Thomas John Sargent	68	Jerome Karle	67
Johann Deisenhofer	45	Peter Arthur Diamond	70	Desmond Mpilo Tutu	53
Hugh David Politzer	55				

① Round to the nearest one.

42	39	31	24	23	31
42	31	26	17	36	39
39	27	31	28	44	26
39	30	31			

Stems Tens	Leaf Ones
1	- 7
2	- 7, 6, 4, 8, 3, 6
3	- 9, 9, 9, 1, 0, 1, 1, 1, 6, 1, 9
4	- 2, 2, 4

Stem	Leaf
1	7
2	3, 4, 6, 6, 7, 8
3	0, 1, 1, 1, 1, 1, 6, 9, 9, 9, 9
4	2, 2, 4

Key 1|7 = 17

② Round to the nearest ten.

1,300	1,780	1,790	1,200	1,260	1,770
980	1,610	1,670	1,780	1,150	1,720
1,590	980	1,380	1,140	1,560	1,720
1,730	950	1,290			

Stems Thousands & hundreds	Leaf Tens
9	- 8, 8, 5
10	-
11	- 4, 5
12	- 9, 0, 6
13	- 0, 8
14	-
15	- 9, 6
16	- 1, 7
17	- 3, 8, 9, 8, 7, 2, 2

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

Key 9|5 = 950

③ No need to round

5	24	6
27	23	12
10	1	45
1	9	11
8	2	24

Stems	Leaf
Tens	ones
0	- 5, 1, 8, 1, 9, 2, 6
1	- 0, 2, 1
2	- 7, 4, 3, 4
3	-
4	- 5

Stem	Leaf
0	1, 1, 2, 5, 6, 8, 9
1	0, 1, 2
2	3, 4, 4, 7
3	
4	5

Key 1|0 = 10

④ Round to the nearest hundred.

24,300	25,600	24,300
24,800	24,600	26,100
24,200	25,700	24,200
24,600	23,600	26,400
23,900	24,500	24,900
23,700		

Stems	Leaf
Ten Thousands Thousand	Hundreds
23	- 9, 7, 6
24	- 3, 8, 2, 6, 6, 5, 3, 4, 9
25	- 6, 7
26	- 1, 4

Stem	Leaf
23	6, 7, 9
24	2, 3, 3, 4, 5, 6, 6, 8, 9
25	6, 7
26	1, 4

Key 23|6 = 23,600

⑤ Round to the nearest thousands as stems to plentiful hundreds

32,000	56,000	60,000	49,000	38,000	36,000
63,000	44,000	75,000	55,000	46,000	69,000
67,000	59,000	52,000	47,000		

Stems Ten Thousands	Leaf Thousand
3	- 2, 8, 6
4	- 4, 9, 7, 6
5	- 6, 9, 2, 5
6	- 3, 7, 0, 9
7	- 5

Stem	Leaf
3	2, 6, 8
4	4, 6, 7, 9
5	2, 5, 6, 9
6	0, 3, 7, 9
7	5

Key 3|2 = \$32,000

⑥ No need to round.

69	67	56	49	68	42
68	61	64	68	65	50
59	45	56	70	67	53
39	55	52	62		

Stems Tens	Leaf Ones
3	- 9
4	- 5, 9, 2
5	- 9, 5, 6, 6, 2, 0, 3
6	- 9, 8, 7, 1, 4, 8, 2, 8, 5, 7
7	- 0

Stems	Leaf
3	9
4	2, 5, 9
5	0, 2, 3, 5, 6, 6, 9
6	1, 2, 4, 5, 7, 7, 8, 8, 8, 9
7	0

Key 3|9 = 39

