

Histograms – Day 2

Unit 8: Statistics

Draw a histogram for each data set.

1.

Monthly Revenue

\$35,630	\$34,590	\$43,330	\$76,610	\$39,100	\$73,250
\$65,430	\$48,580	\$67,600	\$61,120		

2.

Men's Heights (Inches)

71	67	70	71	68	71
75	69	69	70	67	67
72	74	68	72	69	

3.

Large Cities

City	Population	City	Population	City	Population
Wenzhou	3,039,439	Shantou	5,391,028	Yangon	4,714,000
Chengdu	4,741,929	Lahore	11,318,745	Abidjan	4,765,000
Seoul	10,388,055	Moscow	12,111,194	Ankara	5,045,083
New York City	8,405,837				

Draw a histogram for each data set.

4.

Birth Rate

Country	Births/woman	Country	Births/woman	Country	Births/woman
France	2.08	Niger	6.89	Barbados	1.68
Georgia	1.77	Macedonia	1.59	Singapore	0.8
Philippines	3.06	Mauritius	1.77	Antigua & Barbuda	2.03
Solomon Islands	3.36	Benin	5.04	Uganda	5.97
Belize	3.02	Brazil	1.69	Trinidad & Tobago	1.71
Kyrgyzstan	2.68	Ethiopia	5.23		

5.

Car Masses (kg)

1,195	1,585	1,585	1,930	1,685	1,030
1,630	1,700	1,550	1,840	1,695	1,445
1,095	1,600	1,445	1,680	1,420	1,690
1,660	1,415	1,380			

6.

Life Expectancy

State	Years	State	Years	State	Years
Pennsylvania	81.6	Wyoming	78.4	New Mexico	77.7
Nebraska	79.8	Georgia	80.1	Alaska	74.9
Delaware	77	Oklahoma	78.2	Washington	80.3
Maine	79.1	Iowa	79.8	Arkansas	74.2
Virginia	82.5	Colorado	80.9	Wisconsin	79.8
Ohio	81	Mississippi	74.2	Idaho	81.4
Vermont	80.4	New Jersey	82.4	New Hampshire	80.1
Missouri	75.9	North Carolina	79.6		

① List data least to greatest.

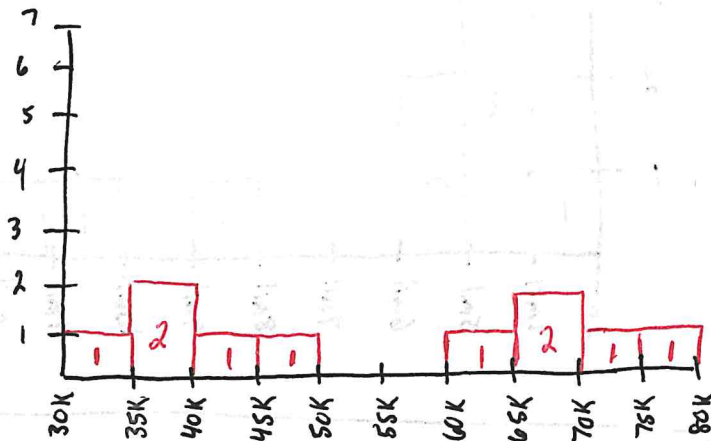
34590, 35630, 39100, 43330, 48580, 61120, 65430, 67600
73250, 76610

$$\text{Max} = 76610$$

$$\text{min} = 34590$$

$$\text{Range} = 76610 - 34590 = 42,020$$

If we start at 30,000 and go to 80,000 by 5000's we have 10 sections.



② List data least to greatest

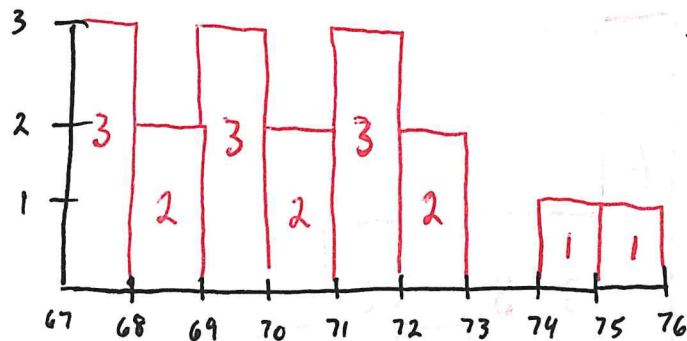
67, 67, 67, 68, 68, 69, 69, 69, 70, 70, 71, 71, 71, 72, 72,
74, 75

$$\text{Max} = 75$$

$$\text{min} = 67$$

$$\text{Range} = 75 - 67 = 8$$

Range is small enough to go by 1's from 67 to 76.



③ List data least to greatest.

3,039,439

4,714,000

4,741,929

4,765,000

5,045,083

5,391,028

8,405,837

10,388,055

11,318,745

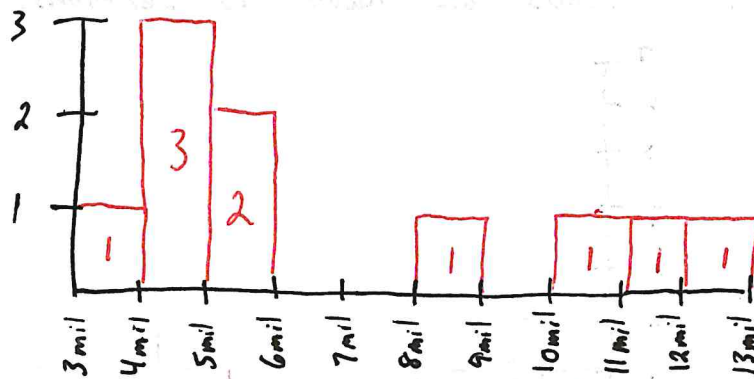
12,111,194

$$\text{Max} = 12,111,194$$

$$\text{Min} = 3,039,439$$

$$\text{Range} = 12,111,194 - 3,039,439 = 9,071,758$$

Range is small enough to go by 1 millions
up through 10 million.



④ List data least to greatest.

0.8, 1.59, 1.68, 1.69, 1.71, 1.77, 1.77, 2.03, 2.08, 2.68,

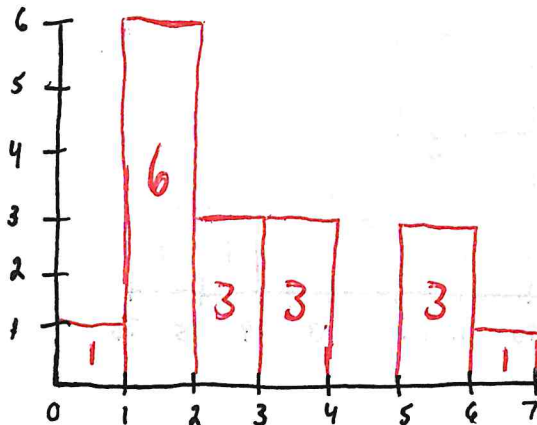
3.02, 3.06, 3.36, 5.04, 5.23, 5.97, 6.89

$$\text{Max} = 6.89$$

$$\text{Min} = 0.8$$

$$\text{Range} = 6.89 - 0.8 = 6.09$$

Range can go from 0 to 7 by 1's.



⑤ List data least to greatest.

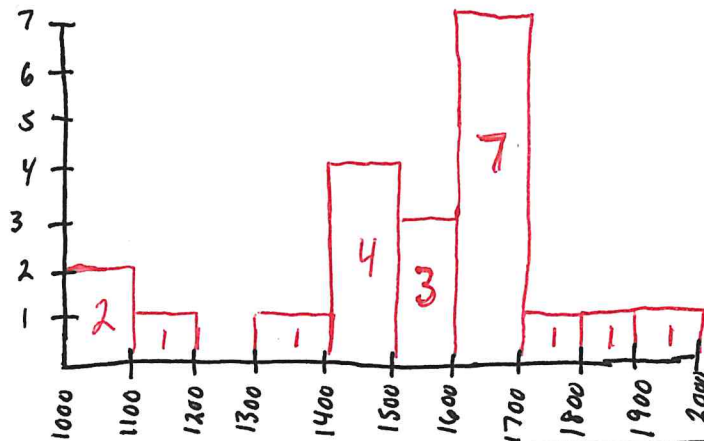
1030, 1095, 1195, 1380, 1415, 1420, 1445, 1445, 1550,
1585, 1585, 1600, 1630, 1660, 1680, 1685, 1690, 1695,
1700, 1840, 1930

$$\text{max} = 1930$$

$$\text{min} = 1030$$

$$\text{Range} = 1930 - 1030 = 900$$

Range can span from 1000 to 2000 with 10 sections of 100 each.



⑥ List data least to greatest.

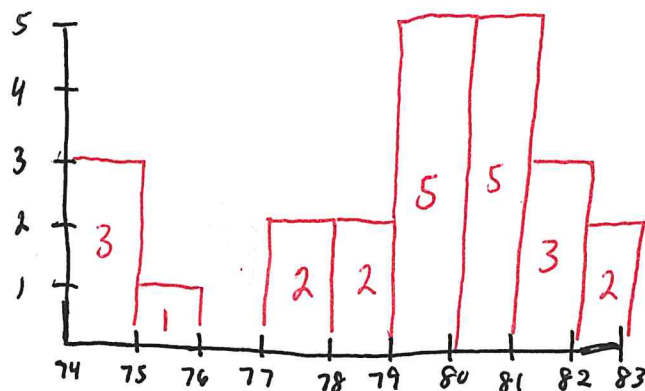
74.2, 74.2, 74.9, 75.9, 77, 77.7, 78.2, 78.4, 79.1, 79.6,
79.8, 79.8, 79.8, 80.1, 80.1, 80.3, 80.4, 80.9, 81, 81.4,
81.6, 82.4, 82.5

$$\text{Max} = 82.5$$

$$\text{min} = 74.2$$

$$\text{Range} = 82.5 - 74.2 = 8.3$$

Range is small enough to go by 1's from 74 to 83.



History of ...

1920, 1930, 1940, 1950, 1960, 1970, 1980, 1990, 2000, 2010, 2020

... from 1920 to 2020 ...



History of ...

1920, 1930, 1940, 1950, 1960, 1970, 1980, 1990, 2000, 2010, 2020

... from 1920 to 2020 ...

