Histograms – Day 3
Unit 8: Statistics

Draw a histogram for each data set.

1.

Annual Household Income

$11,150	$28,950	$45,200	$16,500	$31,450	$11,600
$10,900	$20,350	$9,550	$21,450	$5,200	

2.

Single Family Home Prices

$357,000	$343,800	$361,500	$365,900	$348,000	$350,900
$331,400	$354,300	$327,400	$361,700	$358,500	$350,500
$342,500	$347,800	$348,300	$351,800	$326,100	$336,900
$323,300	$362,100	$347,900	$345,100	$343,900	

3.

Birth Rate

Country	Births/woman	Country	Births/woman	Country	Births/woman
Iran	1.85	Barbados	1.68	Australia	1.77
Mexico	2.29	Marshall Islands	3.22	Somalia	6.08
Mauritania	4.07	Brunei	1.82	Denmark	1.73
Brazil	1.69	Canada	1.59	Nauru	2.93
Costa Rica	1.91	Oman	2.86	France	2.08

Draw a histogram for each data set.

4.

Boiling Point

Substance	°C	Substance	°C	Substance	°C
Carbon	4,827	Nitric Acid	83	Nickel	2,913
Iodine	184.3	Glycerol	290	Gold	2,856
Chloroform	61.2	Sulphuric Acid	337	Copper	2,562
Sodium	882.8	Sea Water	100.7	Zinc	907
Mercury	356.7	Lead	1,750	Sulphur	444.7
Potassium	758.8	Calcium	1,484	Titanium	3,287
Ethanol	78.4	Tin	2,603	Platinum	3,825
Silver	2,162	Silicon	2,357		

5.

Monthly Revenue

$68,820	$62,300	$67,640	$80,290	$61,790	$74,730
$70,220	$53,950	$63,350	$73,250	$63,740	$56,550
$48,600	$44,470	$68,510	$49,310	$46,310	$79,020
$64,900	$63,550	$69,760	$64,210	$74,710	

6.

Large US Cities

City	Population	City	Population	City	Population
Mesa	439,041	Charlotte	731,424	Colorado Springs	416,427
San Antonio	1,327,407	Reno	225,221	Tucson	520,116
Louisville	597,337	Columbus	787,033	Omaha	408,958
Chula Vista	243,916	Fresno	494,665	Detroit	713,777
Stockton	291,707	Buffalo	261,310	Lexington	295,803
San Jose	945,942	Winston-Salem	229,617	Kansas City	459,787
Virginia Beach	437,994	Los Angeles	3,792,621	Chesapeake	222,209

① List data least to greatest.

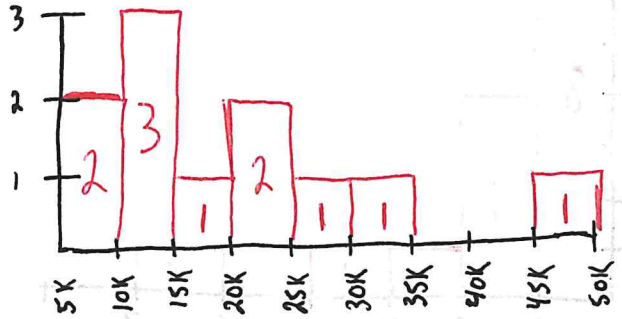
5200, 9550, 10900, 11150, 11600, 16500, 20350, 21450, 28950, 31450, 45200

Max = 45200

min = 5200

Range = 45200 − 5200 = 40000

Range can do spaces of 4000, but lets go by 5000's starting at 5000 until 50,000



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② List data least to greatest

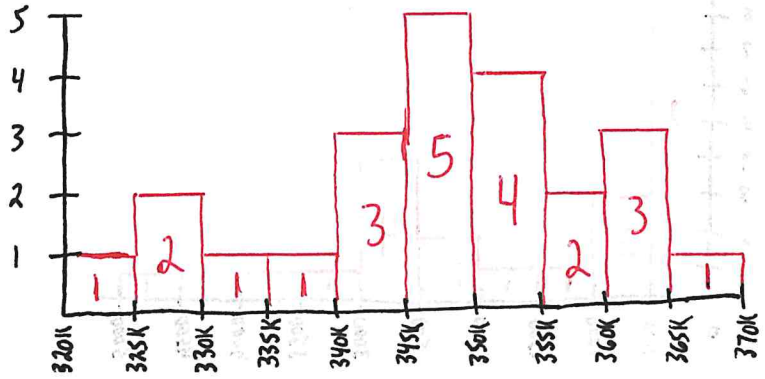
323300, 326100, 327400, 331400, 336900, 342500, 343800, 343900
345100, 347800, 347900, 348000, 348300, 350500, 350900, 351800
354300, 357000, 358500, 361500, 361700, 362100, 365900

Max = 365900

min = 323300

Range = 365900 − 323300 = 42600

Range can go by 4260, but lets go by 5000's Start at 320,000 and go until 370,000.

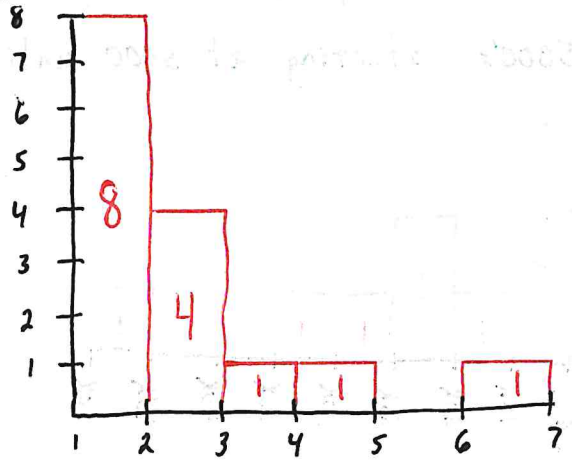


③ List data least to greatest.

1.59, 1.68, 1.69, 1.73, 1.77, 1.82, 1.85, 1.91
2.08, 2.29, 2.86, 2.93, 3.22, 4.07, 6.08

Max = 6.08
min = 1.59
Range = 6.08 − 1.59 = 4.49

Range is small enough to go by 1 from 1 to 7



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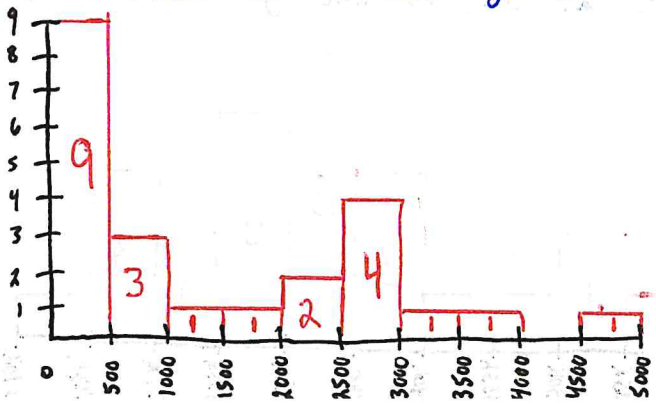
④ List data least to greatest.

61.2, 78.4, 83, 100.7, 184.3, 290, 337, 356.7, 444.7,
758.8, 882.8, 907, 1484, 1750, 2162, 2357, 2562, 2603
2856, 2913, 3287, 3825, 4827

Max = 4827
min = 61.2
Range = 4827 − 61.2 = 4765.8

Range could be 10 groups of 476.58, but we'll do 500's. start at 0 and go until 5000.



⑤ List data least to greatest.

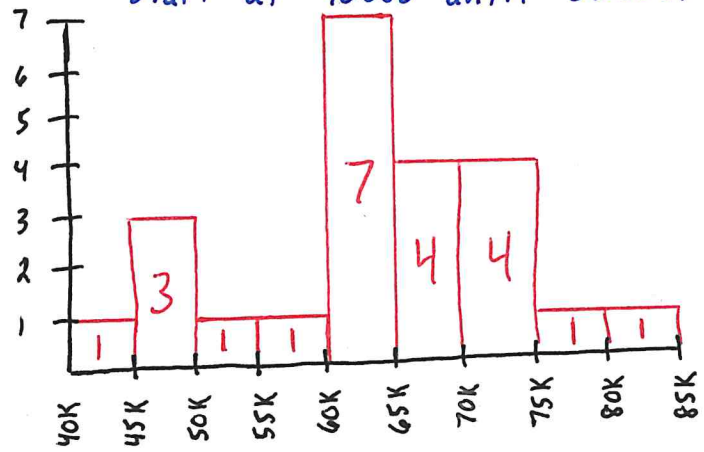
44470, 46310, 48600, 49310, 53950, 56550, 61790, 62300,
63350, 63550, 63740, 64210, 64900, 67640, 68510, 68820,
69760, 70220, 73250, 74710, 74730, 79020, 80290

max = 80290

min = 44470

Range = 80290 − 44470 = 35820

Range could go up by 3582, but go by 5000's start at 40000 until 85000.



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⑥ List data least to greatest.

222,209
225,221
229,617
243,916
261,310
291,707
295,803
408,958
416,427
437,994
439,041
459,787
494,665
520,116
597,337
713,777
731,424
787,033
945,942
1,327,407
3,792,621

max = 3,792,621

min = 222,209

Range = 3792621 − 222209 = 3,570,412

Range could go by 357,041.2, but we'll go by 500,000's up to 4,000,000.