

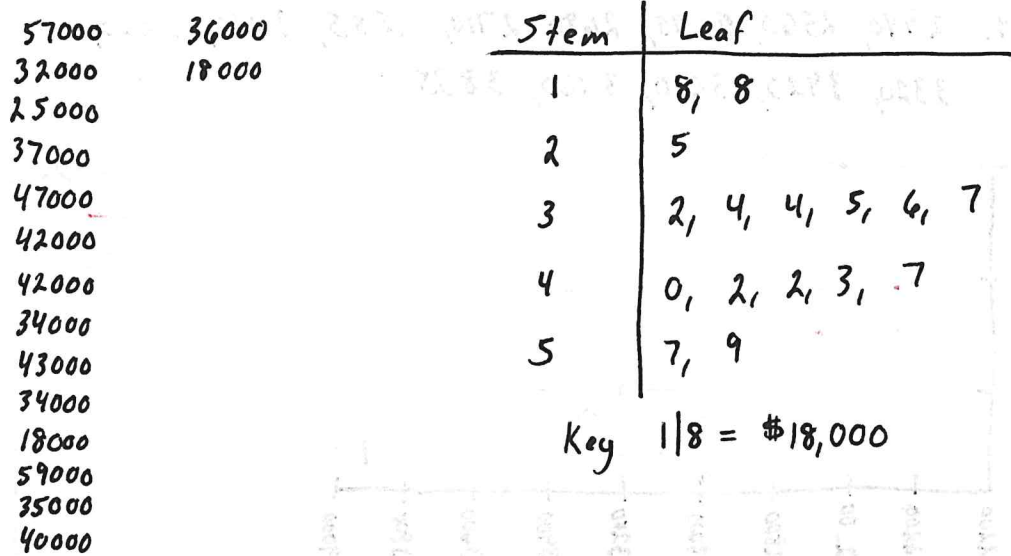
Draw a stem-and-leaf plot for each data set.

(3 pts each)

5.

Monthly Revenue

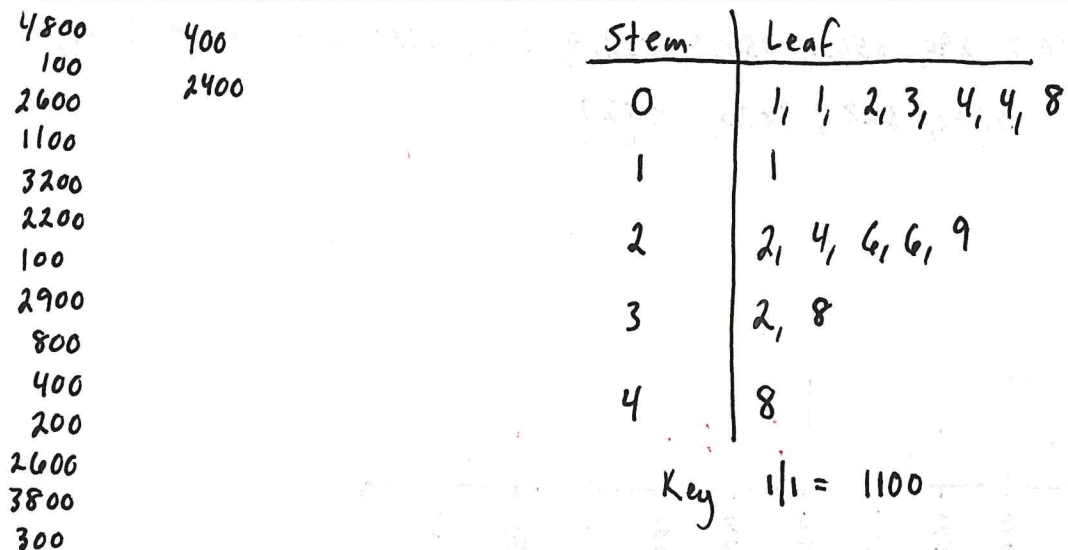
| | | | | | |
|----------|----------|----------|----------|----------|----------|
| \$56,590 | \$36,590 | \$42,310 | \$34,110 | \$35,170 | \$36,140 |
| \$31,770 | \$47,150 | \$33,740 | \$17,940 | \$40,060 | \$18,370 |
| \$24,860 | \$42,150 | \$43,280 | \$58,860 | | |



6.

Boiling Point

| Substance | °C | Substance | °C | Substance | °C |
|-----------|-------|-----------|-------|------------|-------|
| Carbon | 4,827 | Silver | 2,162 | Tin | 2,603 |
| Methanol | 64.7 | Sea Water | 100.7 | Platinum | 3,825 |
| Copper | 2,562 | Cobalt | 2,870 | Phosphorus | 280.5 |
| Magnesium | 1,091 | Potassium | 758.8 | Mercury | 356.7 |
| Plutonium | 3,232 | Sulphur | 444.7 | Silicon | 2,357 |
| | | Iodine | 184.3 | | |



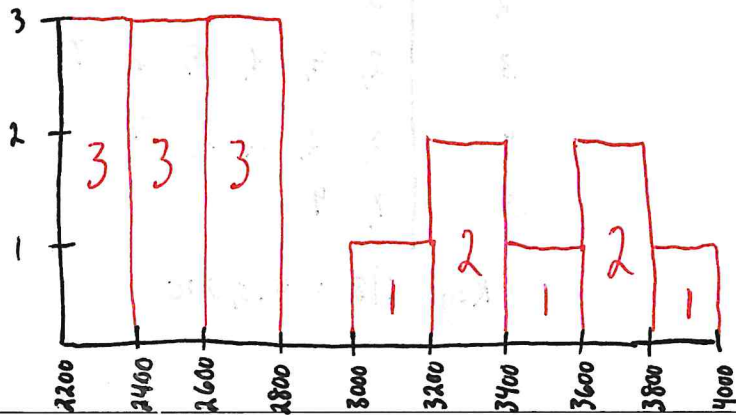
Draw a histogram for each data set. (4 pts each)

7.

Car Weights (lb)

| | | | | | |
|-------|-------|-------|-------|-------|-------|
| 2,560 | 2,395 | 2,710 | 2,680 | 3,835 | 3,265 |
| 3,765 | 3,025 | 3,320 | 2,440 | 2,575 | 3,660 |
| 2,755 | 2,380 | 3,425 | 2,235 | | |

min 2235, 2380, 2395, 2440, 2560, 2575, 2680, 2710, 2755, 3025, 3265, 3320, 3425, 3660, 3765, 3835 max



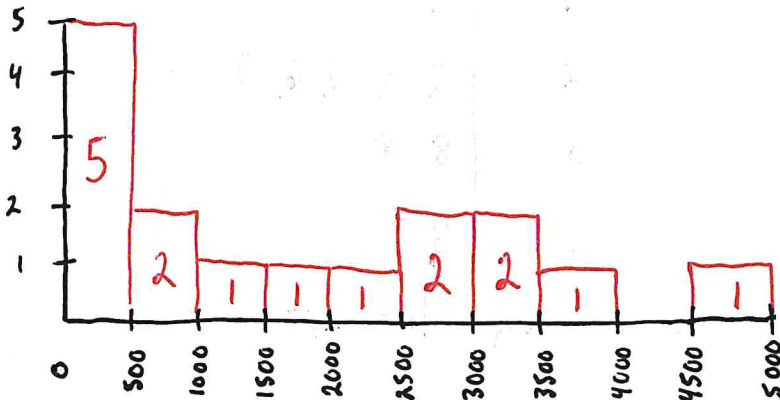
Range = $3835 - 2235$
 $= 1600$

8.

Boiling Point

| Substance | °C | Substance | °C | Substance | °C |
|-------------|-------|-----------|-------|-----------|-------|
| Lead | 1,750 | Potassium | 758.8 | Calcium | 1,484 |
| Sea Water | 100.7 | Aluminum | 2,519 | Titanium | 3,287 |
| Nitric Acid | 83 | Carbon | 4,827 | Glycerol | 290 |
| Platinum | 3,825 | Gold | 2,856 | Plutonium | 3,232 |
| Ethanol | 78.4 | Mercury | 356.7 | Sodium | 882.8 |
| | | Silicon | 2,357 | | |

min 78.4, 83, 100.7, 290, 356.7, 758.8, 882.8, 1484, 1750, 2357, 2519, 2856, 3232, 3287, 3825, 4827 max



Range = $4827 - 78.4$
 $= 4748.6$

Draw a box-and-whisker plot for each data set. (7pts each)

9.

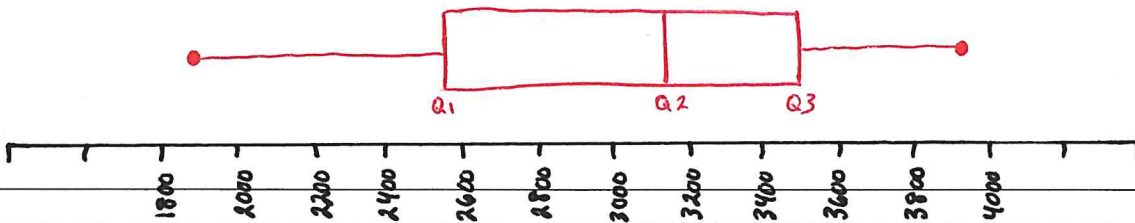
Car Weights (lb)

| | | | | | |
|-------|-------|-------|-------|-------|-------|
| 2,735 | 3,125 | 3,135 | 3,915 | 3,490 | 3,035 |
| 3,305 | 3,460 | 3,200 | 2,395 | 1,855 | 2,425 |
| 3,615 | 3,475 | 2,185 | 3,505 | | |

1855, 2185, 2395, 2425, 2735, 3035, 3125, 3135, 3200, 3305, 3460, 3475, 3490, 3505, 3615, 3915

$\frac{\text{min}}{1855}$ $\frac{Q1}{2580}$ $\frac{Q2}{3167.5}$ $\frac{Q3}{3482.5}$ $\frac{\text{max}}{3915}$

$IQR = 902.5$



10.

Life Expectancy

| Country | Years | Country | Years |
|------------------|-------|-------------------|-------|
| Kenya | 60 | Trinidad & Tobago | 74.8 |
| Guatemala | 71.5 | Ecuador | 76 |
| Sweden | 83 | Mexico | 77.2 |
| Greece | 81 | Spain | 82.5 |
| Haiti | 63 | Pakistan | 67 |
| Hungary | 75 | Norway | 81.9 |
| Cameroon | 61.5 | Romania | 74 |
| Marshall Islands | 73.5 | Ireland | 81.4 |

60, 61.5, 63, 67, 71.5, 73.5, 74, 74.8, 75, 76, 77.2, 81, 81.4, 81.9, 82.5, 83

$\frac{\text{min}}{60}$ $\frac{Q1}{69.25}$ $\frac{Q2}{74.9}$ $\frac{Q3}{81.2}$ $\frac{\text{max}}{83}$

$IQR = 11.95$

