

Statistics Review Sheet

1.	year	0	10	15	20	22	23	24	25	26
	Milk	27.6	25.7	23.9	22.5	21.9	21.6	21.3	21	21

stat \rightarrow calc \rightarrow 4

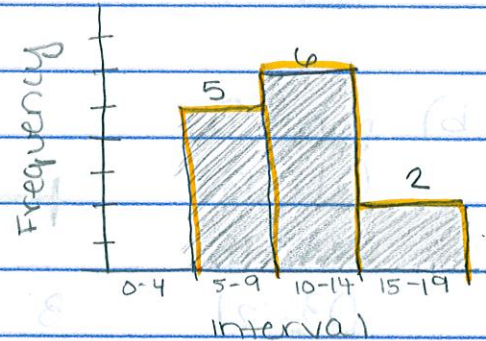
c) $y = -0.2704x + 27.9$

d)
$$\begin{array}{r} 2015 \\ - 1980 \\ \hline x = 35 \end{array} \quad y = -0.2704(35) + 27.9$$

 $y = 18.4 \text{ gal}$

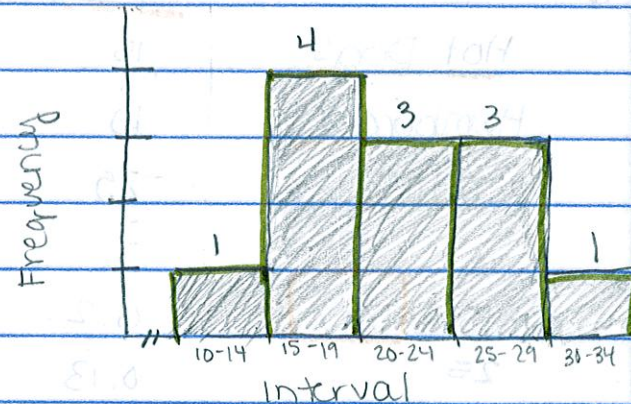
2. a) 6, 7, 8, 9, 9, 10, 10, 11, 11, 12, 13, 15, 15

Interval	Frequency
0-4	0
5-9	5
10-14	6
15-19	2



b) 12, 15, 15, 18, 19, 20, 22, 23, 25, 26, 28, 30

Interval	Frequency
10-14	1
15-19	4
20-24	3
25-29	3
30-34	1



3. a) $\left. \begin{array}{l} \text{mean: } 9 \\ \text{median: } 8 \\ \text{mode: } 8 \end{array} \right\} \begin{array}{l} \text{mode,} \\ \text{tangible} \end{array}$

b) $\left. \begin{array}{l} \text{mean: } 38 \\ \text{median: } 32 \\ \text{mode: } 25 \end{array} \right\} \begin{array}{l} \text{median} \\ \text{b/c there is} \\ \text{an outlier} \end{array}$

	<u>mean</u>	<u>range</u>	
<u>Jackie</u>	6.5	$11 - 3 = 8$	Kelsey, on average sends more emails per day.
<u>Kelsey</u>	6.8	$12 - 2 = 10$	

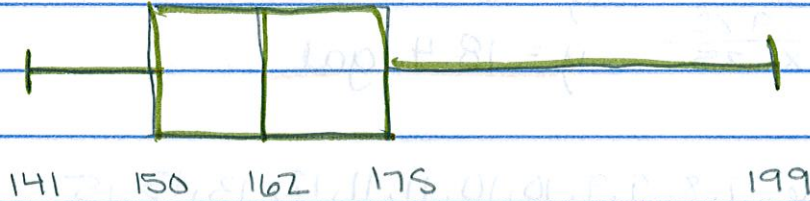
5. a) min: 141

Q1: 150

med: 162

Q3: 175

max: 199



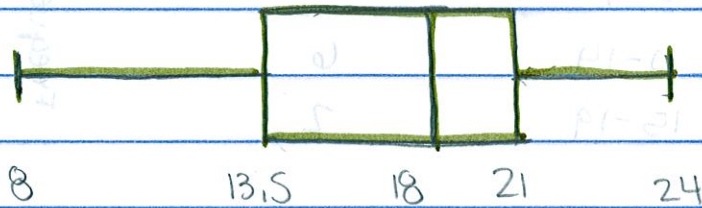
b) min: 8

Q1: 13.5

med: 18

Q3: 21

max: 24



	<u>Math</u>	<u>Science</u>	<u>English</u>	<u>Total</u>
<u>Hot Dogs</u>	15	14	11	40
<u>Hamburgers</u>	10	11	14	35
<u>Total</u>	25	25	25	75

d) $\frac{15}{25} = 60\%$	0.2	0.19	0.15	0.53
	0.13	0.15	0.19	0.47
	0.33	0.33	0.33	1

e) $\frac{14}{25} = 0.56$

f) 33%

7.

	<u>Brother</u>	<u>Sister</u>	<u>Total</u>
<u>Girls</u>	2	11	13
<u>Boys</u>	12	3	15
<u>Total</u>	14	14	28

8.

	<u>Brother</u>	<u>Sister</u>	<u>Total</u>
<u>Girls</u>	0.071	0.393	0.464
<u>Boys</u>	0.429	0.107	0.536
<u>Total</u>	0.5	0.5	1

a) of boys $\frac{3}{15} \times 100 = 20\%$

b) 15 boys

9. $\frac{82+82+82+82+82}{6} + X = 85$

$\frac{410}{6} + X = 85$ $410 + X = 510$
 $X = 100\%$

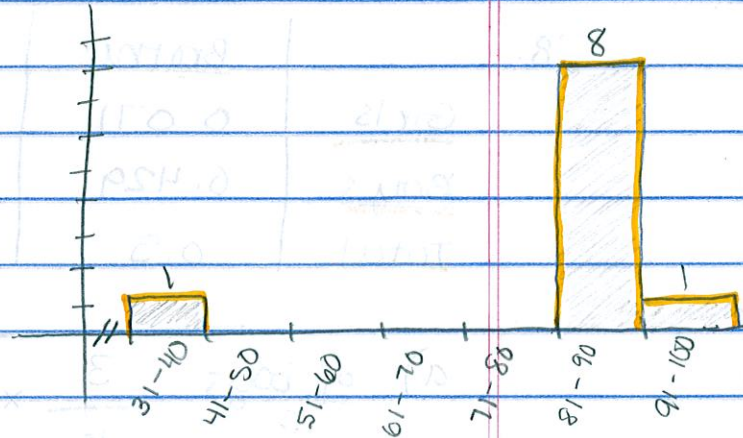
10. $\frac{99+85+93+95+100}{6} + X = 94$

$\frac{472}{6} + X = 94$ $472 + X = 564$
 $X = 92\%$

11a) mean: 82
median: 86
mode: 82

b) median, because
 there is an outlier
 40, 80, 82, 82, 83, 86, 87, 88, 89, 90, 95,

Interval	Frequency
31-40	1
41-50	0
51-60	0
61-70	0
71-80	1
81-90	8
91-100	1



f) min: 40
Q1: 82
med: 86
Q3: 89
max: 95

