#6 on p. 286

$\bar{x} = 2.73$

$\sigma = 1.34$

$\bar{x} + \sigma = 4.07$ ← one standard deviation above the mean

(d) $15 + 8 =$ 23 houses

#7 modal class $45 \leq t < 60$

How many people used more than $\bar{x} + \sigma$ minutes? (approximately)

$\bar{x} + \sigma = 64.0$

$\approx 18 + 11 = 29$

Give the 5-number summary:

$[5, 6, 8, 12, 15][16, 17, 19, 22, 25]$

Q_2 $\quad Q_2 = 15.5$ $\quad Q_3$

$\frac{10+1}{2} = 5.5$

Min: 5

Q_1: 8

Q_2: 15.5

Q_3: 19

Max: 25

- Interquartile range (IQR) $19 - 8 = 11$
- range: $25 - 5 = 20$

Ex. $[1, 2, 5, 8][9][10, 12, 13, 14]$

3.5 $\quad Q_2$ $\quad Q_3 = 12.5$

$\frac{9+1}{2} = 5$

Min: 1

Q_1 3.5

Q_2 9

Q_3 12.5

Max 14

Classwork quiz 10-23

p. 266 # 2

tracks	7	8	9	10	11	12	13
# of CDs	3	2	2	1	3	5	3

1) How many CDs in the collection?
2) Find the mean number of tracks.
3) Find the standard deviation of the number of tracks.
4) Find the mode for the number of tracks.
5) Give the 5-number summary. Label each value.

HW  p. 281 # 1 – 5, 7

Thursday:  review

Monday 10-29 TEST