

Stats CH 1 Quiz Guide

Q1: Lessons 1, 2, 3, 4

Review

R1.1

R1.2

R1.3

R1.4

A.P. Prac

T1.1

T1.2

T1.3

T1.9

T1.10

Pages

Rev → 75-78

AP → 78-81

Q2: Lessons 5, 6, 7, 3

Review

R1.5

R1.6 (not box-plot)

R1.7a

R1.8

A.P. Prac

T1.4

T1.5

T1.8 8

T1.13

T1.14

T1.15

Q3: Lessons 8, 9, 7

Review

R1.6

R1.7

R1.9

R1.10

A.P. Prac

T1.4

T1.6

T1.7

T1.11

T1.12

T1.15

AP Stats : CH 1 AP Practice Test

① D

② E

③ B US, Japan, Germ.

④ L 4.5 5.2 5.5 6.0 8.7 8.9 H H
B ↑ Median

⑤

0-10	60	total: 139
10-20	40	
20-30	20	
30-40	5	

$\frac{60}{139} = 43.2\%$

⑥ C

Q_1 is between 0-10
 Q_3 is between 20-30
IQR of 35 impossible

⑦ $50(.75) = 37.5$ Q_3 is between data values 38 + 39
this is #44

⑧ C

⑨ E $125 + 81 + 40 = 246$ $246/600 = 62.5\%$

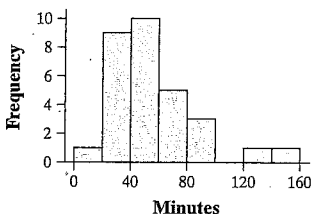
⑩ B

⑪ D - not true

⑫ other page

Ch 8 Proc. AP

12) a)



b) $Q_1 = 30$
Med =

$Q_3 = 77$

$IQR = 77 - 30 = 47$

$30 - 1.5(47) = -40.5$

$77 + 1.5(47) = 147.5$

Since 151 is over 147.5 it's an outlier

c) Data skewed right, therefore use Median & IQR

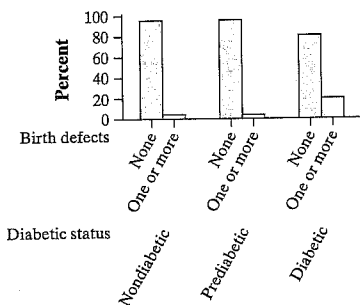
13) a)

	Non	Pre	Di	Total
None	754	362	38	1154
1 >	31	13	9	53
total	785	375	47	1207

b)

	Non	Pre	Dia	Total
None	96.1%	96.5%	80.9%	95.6%
1 >	3.9%	3.5%	19.1%	4.39%
Total	100%	100%	100%	100%

c)



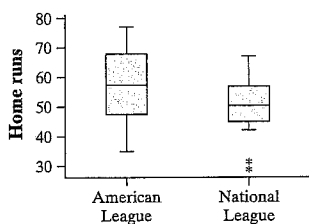
d) Yes, there appears to be an assoc. Diabetics appear to have children with birth defects at a higher rate

14)

- a) 550 - 559 hours
- b) X had a higher min and a higher max
- c) Y had a higher median

15)

T1.15 Given below are side-by-side boxplots and descriptive statistics for both the American League and the National League.



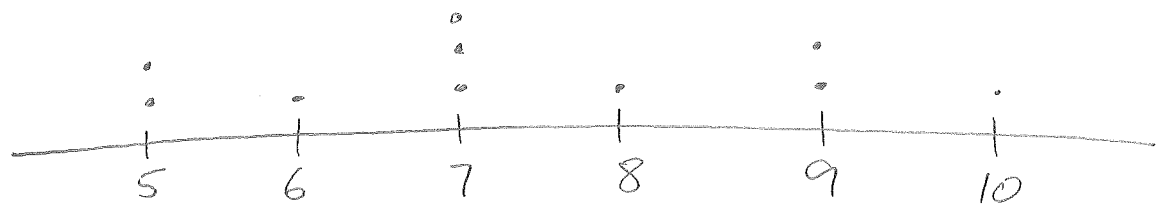
Variable	N	Mean	StDev	Minimum	Q1	Median	Q3	Maximum
American League	14	56.93	12.69	35.00	49.00	57.50	68.00	77.00
National League	14	50.14	11.13	29.00	46.00	50.50	55.00	67.00

The data suggest that the number of home runs is somewhat less in the National League. All five numbers in the five-number summary and the mean are less for the National League teams than for the American League teams. However, there is more variability among the American League teams, with a standard deviation of 12.69, compared to 11.13 for the National League. Both distributions are reasonably symmetric. The American League has no outliers, while the teams that hit 29 and 31 home runs are outliers in the National League.

Q3 Review

Review For Lessons 89 r7

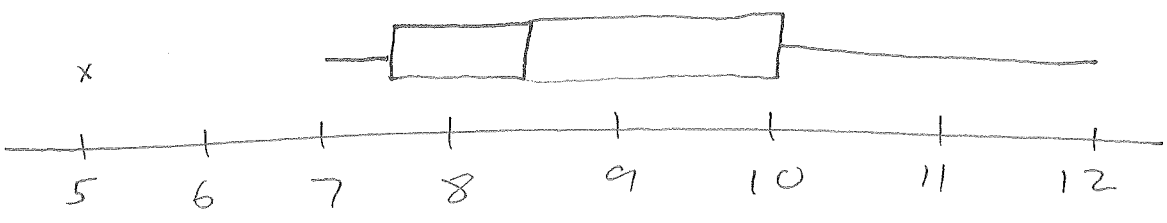
Sodas Consumed yesterday for the Nunemaker Family



Describe Distribution

what is expected & how variable with units

Months of Perfect Attendance at a Job



Describe Distribution

Do you expect mean > median?

Class Data: what age will you marry

Make a histogram

Describe distribution

Show if an outlier exists