

Please reflect and file for next week!

	Assignment Effort Grade (Circle One)	Comments (What was interesting or challenging?)
Monday Date: <u>4-23</u> Topic: <u>Friday was Quiz 7.1</u>	0 1 2	
Tuesday Date: <u>4-24</u> Topic: <u>17A Comparing Data Sets</u>	0 1 2	
Wednesday Date: <u>4-25</u> Topic: <u>17BC Comparing Data Displays</u>	0 1 2	
Thursday Date: <u>4-26</u> Topic: <u>Data Comparison Review</u>	0 1 2	
Friday Date: <u>4-27</u> Topic: <u>Data Comparison Assessment</u>	0 1 2	

Class Plan:

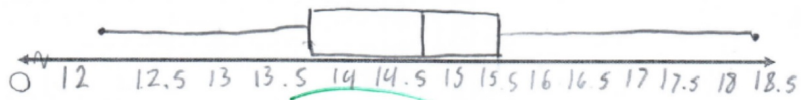
- 1) Warm-up
- 2) Examine common mistakes & exemplars
- 3) Pass back quizzes
(Exemplars posted).
- 4) Unit 7 Test Review

Common Mistakes

1) Scale(key) and/or label(s) missing

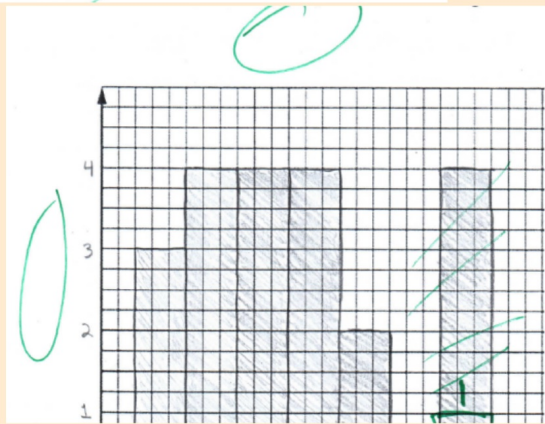
6. Create a box plot for the EAST states set of data.

$x > 18.2$



stem	Leaves
12	0, 1, 0.5, 0.5
13	0, 1, 0.7, 0.7, 0.9
14	0.5, 0.5, 0.8, 0.9
15	0.3, 0.4, 0.5, 0.5
16	0.3, $mN = ?$
17	
18	0.4

(Key)



Common Mistakes

2) Interpretations...

σ : "Each state was about _____ students per teacher away from the average _____ student per teacher"

7. a) The standard deviation of the West states (including MN) is about 2.5838. Interpret its meaning:

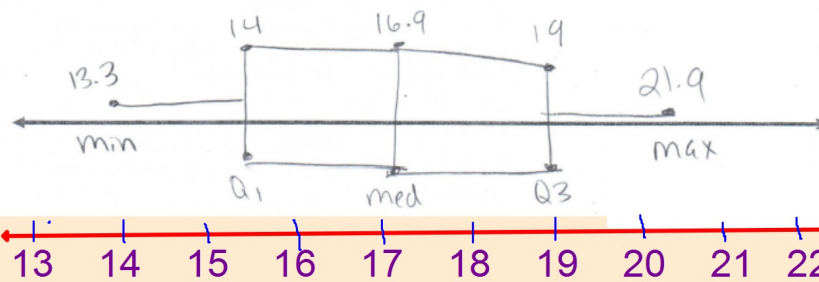
It means that there is about 2.5838 teachers for every 25 kids.

7. a) The standard deviation of the West states (including MN) is about 2.5838. Interpret its meaning:
average per state is either 2.58 above or 2.58 below the ^{per student} mean ^{teacher} median
is the most data, the 50% of the data in the left

Common Mistakes

3) Histograms and box plots need a scaled axis.

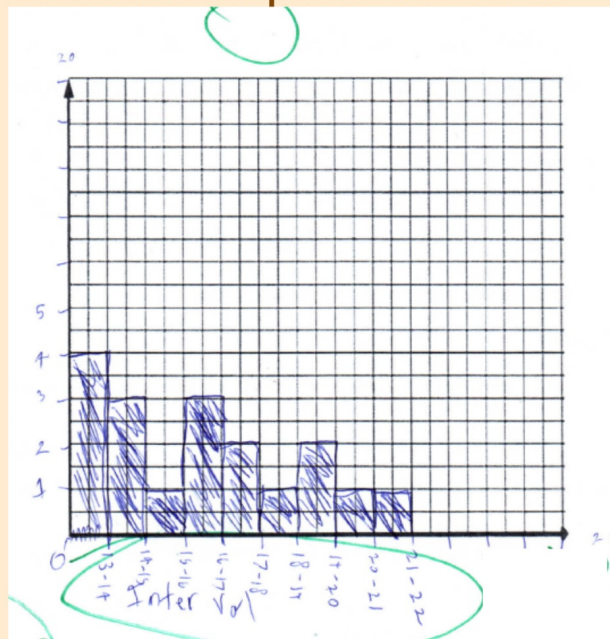
6. Create a box plots for the WEST set of data.



Common Mistakes

3) Histograms and box plots need a scaled axis.

This graph is a column graph



Unit 7 Test Review

Estimate the mean of the following *ages of bus drivers* data, to the nearest year:

<i>Age (yrs)</i>	21 - 25	26 - 30	31 - 35	36 - 40	41 - 45	46 - 50	51 - 55
<i>Frequency</i>	11	14	32	27	29	17	7

<i>Age (yrs)</i>	<i>Frequency (f)</i>	<i>Midpoint (x)</i>	<i>f x</i>
21 - 25	11	23	253
26 - 30	14	28	392
31 - 35	32	33	1056
36 - 40	27	38	1026
41 - 45	29	43	1247
46 - 50	17	48	816
51 - 55	7	53	371
<i>Total</i>	$\sum f = 137$		$\sum f x = 5161$

$$\begin{aligned}\bar{x} &= \frac{\sum f x}{\sum f} \\ &= \frac{5161}{137} \\ &\approx 37.7\end{aligned}$$

\therefore the mean age of the drivers is about 38 years.

Unit 7 Test Review

2)

Kylie pitched a softball 50 times. The speeds of her pitches are shown in the table.

Estimate the mean speed of her pitches.

<i>Speed ($km\ h^{-1}$)</i>	<i>Frequency</i>
80 - < 85	8
85 - < 90	14
90 - < 95	22
95 - < 100	6

Unit 7 Test Review

3)

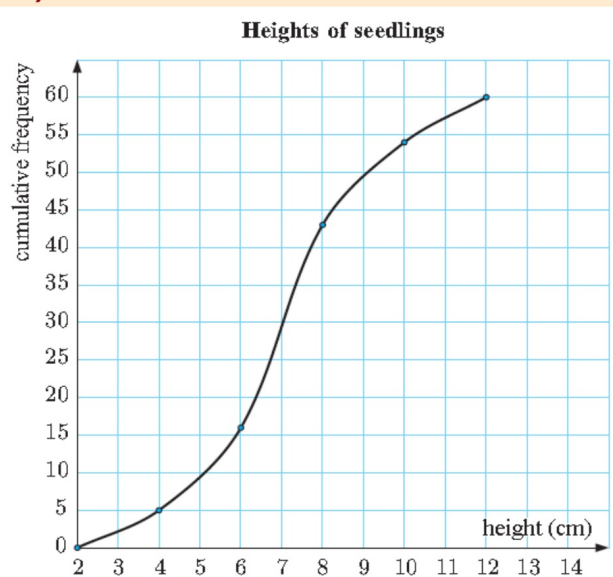
The table shows the sizes of land blocks on a suburban street.

Estimate the mean land block size.

<i>Size (m^2)</i>	<i>Frequency</i>
500 - < 600	5
600 - < 700	11
700 - < 800	23
800 - < 900	14
900 - < 1000	9

Unit 7 Test Review

4)

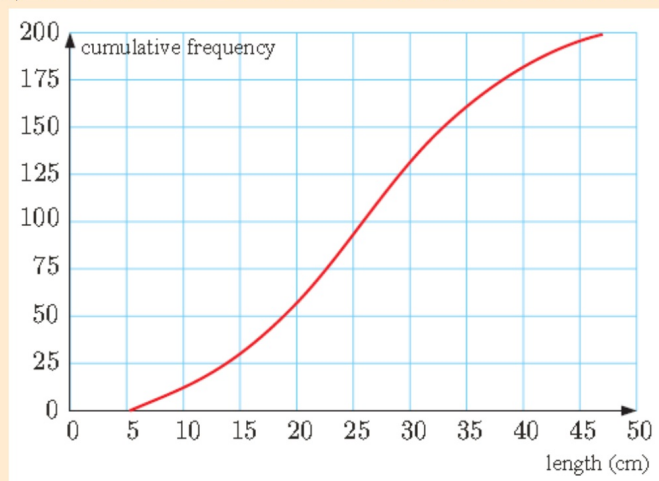


- a How many seedlings have heights of 5 cm or less?
- b What percentage of seedlings are taller than 8 cm?
- c What is the median height?

d) How many seedlings were measured?

Unit 7 Test Review

5) The table below shows the lengths of fish measured at four area lakes.



a) Estimate the median length of the measured fish.

b) What percentage of the measured fish are shorter than 20 cm? Show work!

Unit 7 Test Review Solutions

1) Estimate the mean of the following *ages of bus drivers* data, to the nearest year:

<i>Age (yrs)</i>	21 - 25	26 - 30	31 - 35	36 - 40	41 - 45	46 - 50	51 - 55
<i>Frequency</i>	11	14	32	27	29	17	7

<i>Age (yrs)</i>	<i>Frequency (f)</i>	<i>Midpoint (x)</i>	<i>f x</i>
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<i>Total</i>	$\sum f = 137$		$\sum f x = 5161$

$$\begin{aligned}\bar{x} &= \frac{\sum f x}{\sum f} \\ &= \frac{5161}{137} \\ &\approx 37.7\end{aligned}$$

\therefore the mean age of the drivers is about 38 years.

2) 90.1 km h⁻¹ 3) 768 m²

Unit 7 Test Review Solutions

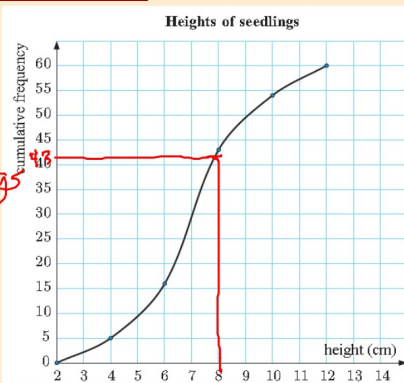
4)

a 9 b $\approx 28.3\%$ c 7 cm

d 60 seedlings

⑥ $60 - 43 = 17$ seedlings
above 8 cm.

$$\frac{17}{60} \approx 28.3\%$$



5)

a About 26 cm

b about 27.5%

⑥ 55 below 20 cm

$$\frac{55}{200} \approx 27.5\%$$

