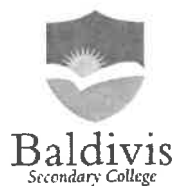


Name: _____

Date: _____

Class: _____

**Year 7 Mathematics****Test 1, Term 3 2020****Topic – Statistics**

/ 30

%

Total Time: 30 min**Weighting:** 10 %**Equipment:** Page of notes and a calculator**Question 1****4 marks**

Draw a line to link the source of data to the Primary Data or Secondary Data accordingly.

Source of Primary Data		Source of Secondary Data	
Observations	Websites	Experiments	Government publications

Question 2**4 marks**

Calculate the mean, median, mode and range of the data:

3, 3, 4, 4, 4, 5, 6

Mean	Median	Mode	Range
$29/7 = 4.1$	4	4	$6 - 3 = 3$

Question 3**8 marks**

Use a stem and leaf plot to represent the following data. Also find the mean, median, mode and range. The weekly house rents (\$):

348, 329, 349, 351, 353, 350, 340, 349, 350, 348, 349, 357, 361 = 13 353

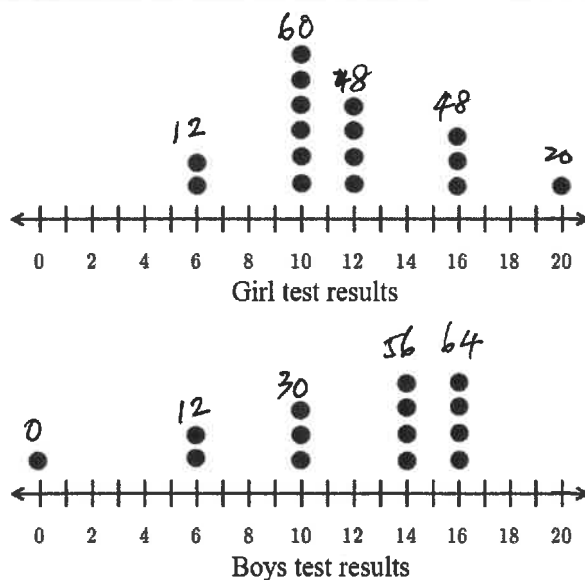
4534 = 329, 340, 348, 348, 349, 349, 349, 350, 350, 351, 357 361

Stem	Leaf	key = 32 9 = 329
32	9	
33		Order
34	0 8 8 9 9 9	all correct
35	0 0 1 3 7	
36	1	

Mean	Median	Mode	Range
$4534/13 = 348.77$	349	349	$361 - 329 = 32$

Question 4

11 marks



Use the above dot plot to determine the mean, median, mode and range for girls and boys test results.

Girl test results	Boys test results
Mean : $188/16 = 11.75$	Mean : $162/14 = 11.57$
Median : $(10+12)/2 = 11$	Median : 14
Mode : 10	Mode : 14 & 16
Range : $20 - 6 = 14$	Range : $16 - 0 = 16$

Compare the mean, median and mode of their test results, which group has a better result? Why? Justify your answer.

Boys better because higher median and mode .

3

Girls better because higher mean

Question 5

3 marks

Five scores have an average of 8.2. Four of those scores are 10, 9, 8 and 7. What is the fifth score?

$$8.2 \times 5 = 41$$

$$41 - (10 + 9 + 8 + 7) = 7$$

3