Year 8 Mathematics Statistics Unit Test

Name: _____

Instructions:

- Answer all questions on this paper.
- Calculators may be used.
- Marks will not be awarded for untidy work.
- Show any necessary working.

1. [4] For these scores:
   i) Rearrange the scores from lowest to highest (ascending order).
   ii) State the mode.
   iii)State the median
   iv)Calculate the mean.

31, 35, 29, 33, 31

i) _____

ii) _____

iii) _____

iv) _____

_____

2. [8] For this table:
   i) Complete the *f.x.* and cumulative frequency (*c.f.*) columns.
   ii) Calculate the mean.
   iii)State the range.
   iv)State the mode.

i)

Score (x)	Frequency (f)	*f.x.*	*c.f.*
15	5		
16	6		
17	7		
18	4		
19	2		
20	1		

ii) _____

_____

iii) _____

iv) _____

3. [12] During an inter-school tennis competition, a total of 30 sets of tennis were played. The number of aces served in each set was recorded:

0	3	1	4	2	0	1	0	2	3
5	1	1	1	0	1	3	2	3	1
1	0	1	0	1	4	2	0	1	3

i) Complete the frequency distribution table below:

Score (x)	**Tally**	**Frequency (f)**	***f.x.***	***c.f.***

ii) What is the range of these scores? _____

iii) Calculate the mean number of aces per set? _____

_____

iv) If another score of 2 were added, would the mode of median scores change?

_____

_____

v) [5] Draw a frequency histogram and polygon based on the above information.

4. [6] The points scored by two of the leading players in a basketball competition of 15 games are:

Player A				
12	17	13	22	11
19	28	21	31	15
20	18	22	27	19

Player B				
10	18	5	24	30
7	27	8	12	29
6	9	14	28	26

i) calculate the mean score for each player.

Player A

_____

_____

_____

Player B

_____

_____

_____

ii) What is the range of scores for each player?

Player A

_____

Player B

_____

iii) Which player would you say is better? WHY? _____

_____

_____

_____