

# Year 9 Weekly Computer Usage

Our school runs a program for the junior school that integrates a computer into most lessons. Our class is one of two in year nine that are a part of this program and due to our heavy computer use, we were curious to see the weekly amount of time students spent on computers five years ago in comparison to us now.

Hypothesis: High school students' computer usage will have increased from 2012 to 2017 due to the growing reliance on modern technology.

## 2012

## VS.

## 2017

2012 Data

Mean : 12.32 hours

Median : 8 hours

Mode : 3 , 5 , 10 & 40 hours

Range : 40 hours

2017 Data

Mean : 31.88 hours

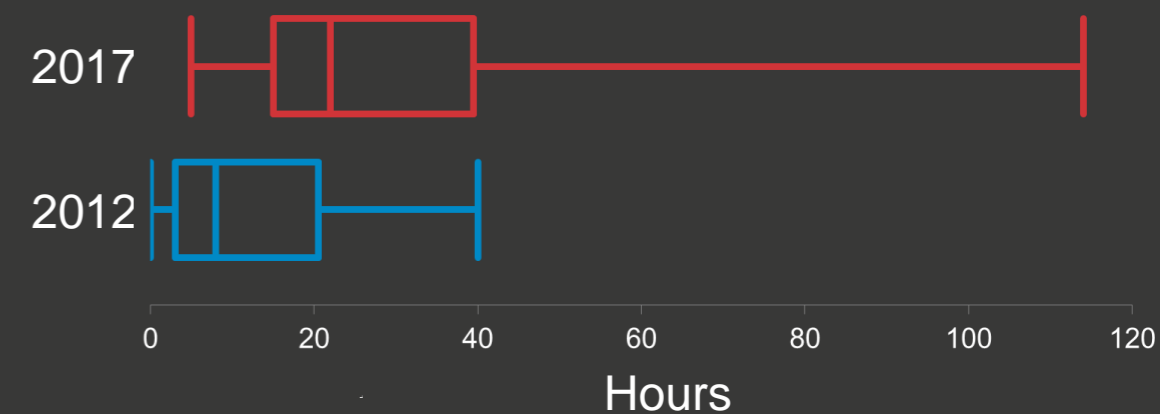
Median : 23 hours

Mode : 15 hours

Range : 109 hours

Hours spent on computers weekly

Stem	Leaf	Stem
9 8 6 6 5 5 5 3 3 3 2 1 1 0	0	5 9
2 0 0 0	1	2 4 5 5 5 6 8
5 3 1 0	2	0 0 2 3 4
	3	0 0 5 8
	4	1
0 0 0	5	2 4
	6	
	7	0
	8	
	9	0
	10	
	11	4



When analysing the graphs, the following trends were observed:

- Significant increase in computer use from 2012 to 2017
- 2017: longest – 114 hours, shortest – 5 hours
- 2012: longest – 40 hours, shortest – 0 hours
- Mean data varied by approx. 10 hours or 39 percent (2012-2017)
- Data sets are positively skewed
- 3 possible outliers in 2017: 70, 90 & 114

Potential flaws or inaccuracies:

- Students surveyed in 2012 weren't the same as the students who were surveyed in 2017
- 2017 students were in a computer class: may impact the fairness of this test.

Improvements:

- Survey more students (larger sample size) so that results are more accurate
- Survey the same people over the 5 year period. This would eliminate discrepancies.

Key: 0 | 1 = 1 hour

In this study, primary data has been used for the 2012 and 2017 results. However, the 2012 survey was not conducted by us, instead, other students from our school in 2012. From these surveys, we obtained 25 responses from each year.

Conclusions from study:

- There has been a significant increase in computer usage over this five year period (2012-2015)
- Some influencing factors include: technological advancements, increase in availability of technology, classrooms reliance

References:

<https://xenlife.com.au/are-we-being-too-dependent-on-technology/>. ABS: Census at School Random Sampler