

Handin

- paper copy → IB
- title page
  - name
  - candidate #
  - title IA
  - word count - not including the appendix/tables
  - 2000 max
- turnitin.com ← word/pdf → please check citations } first
- email your xcell spreadsheet - name the file (name)

Last minute checks

A: introduction

- statement - in bold - in introduction
- why you interested ← (reference)
- statement of task BOLD
- relationship correlation - if this is what you are test<sup>3</sup> →  $\chi^2$
- appendix
  - sample #
  - plan
  - screenshot
  - site
- photo copy of Qs → edit → remove irrelevant Qs

plan

- You mention every process you did
- remove any process you didn't do
- you to say why you do each process

Relevance

B Data

Raw data is in the IA not appendix

- organised
- tables - headings → on each/every page

C. processes

$\sum x$	$\sum(x-\bar{x})$	$\sum(x-\bar{x})^2$	
...	...	...	...

from spreadsheet in appendix

- accuracy → max 1
- relevance → max 2
- at least 2 simple process } must show full working
  - 1 further process }
    - show formula (booklet)
    - show substitution
    - show further calcs
    - show ans

talk about what your calc tells you about your topic mean/graphs/SD

at least 2 simple process } must show full working

1 further process }
 

- show formula (booklet)
- show substitution
- show further calcs
- show ans

$\chi^2$  correlation

$S_x = \sqrt{\frac{\sum(x-\bar{x})^2}{n}}$  find in spread

x	y	$x-\bar{x}$	$y-\bar{y}$	$(x-\bar{x})^2$
...	...	...	...	...
$\sum$				

### Correlation

- must have scatterplot ← no line on it
  - calculate  $S_{xy}$
  - calculate  $r$  ← talk about it
  - strong/mod → calc line of regression
- have to use it  
- use it to make a prediction

$\chi^2$  -  $H_0$   
 $H_1$

$\chi^2$  → critical value from table  
df = 2 = 5.991  
3 = 7.815

table of obs.  
d of f  
calc of exp table of exp table to calc  $\chi^2$

$\chi^2$  for project  
bottol.

$f_o$	$f_e$	$f_o - f_e$

### D results / conclusions (3)

- consistent with procedures
- Conclusion
- repeat your results
  - discuss
  - further / changes
- meaningful discussion

expected values  
75

$\chi^2$

### E Validity ①

subheading

- either - validity of techniques
  - or - validity of results
- limitations → data

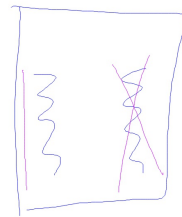
### F Communication & structure

- setting out calculation

⊕ according to plan

tables - headings

graph → axes labelled



font size consistent

footnotes  
bibliography

focused & relevant

### G notation & terminology

$$S_x = \frac{\sum(x - \text{mean})}{n}$$

$r$  = correlation

$\chi^2$  = independence

$$\sqrt{\frac{\sum(x - \bar{x})^2}{n}}$$

$$6.43 \times 10^6$$

$$10^{12}$$

$$\sigma \quad S_x$$

$$6.43E6$$