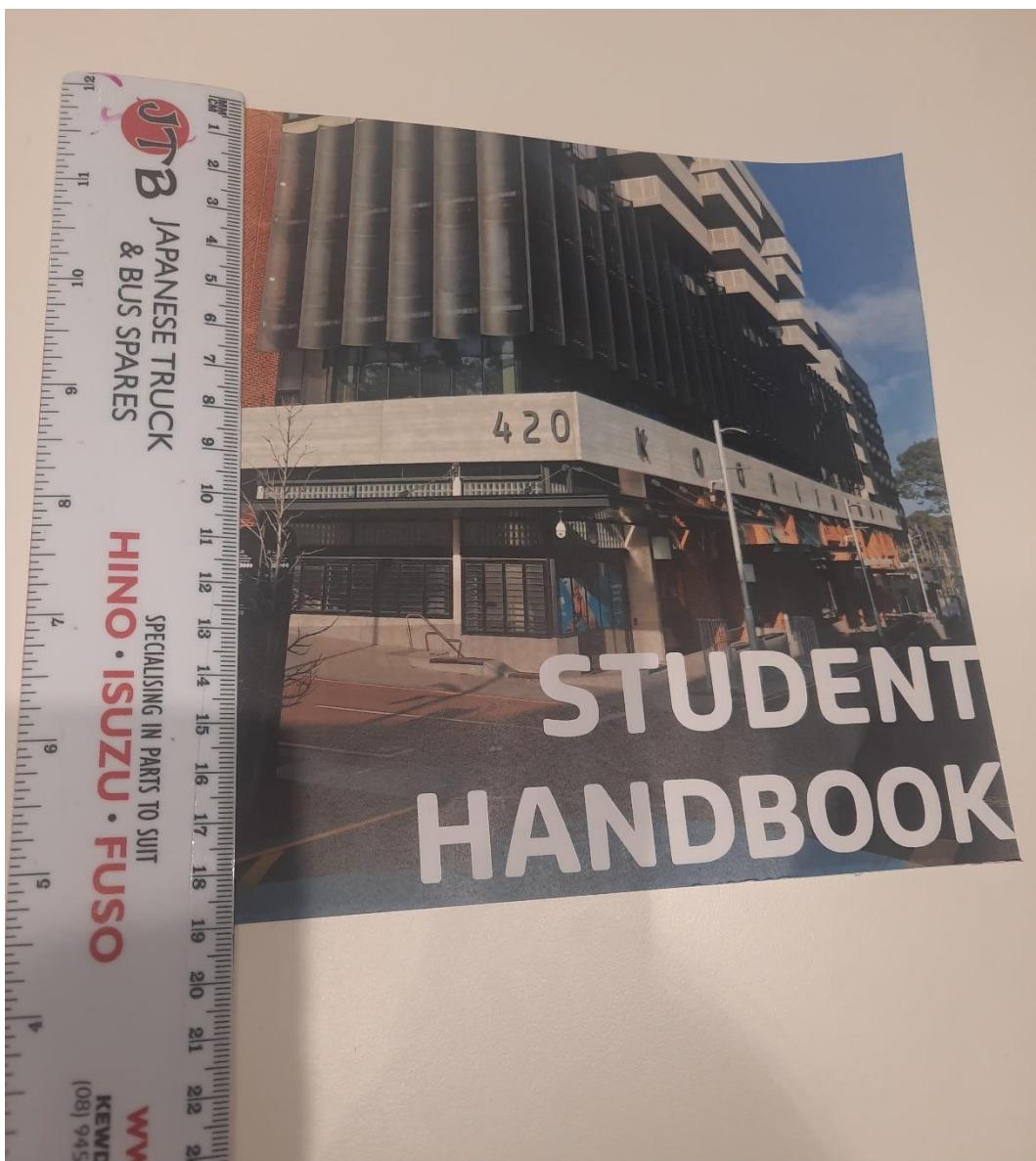


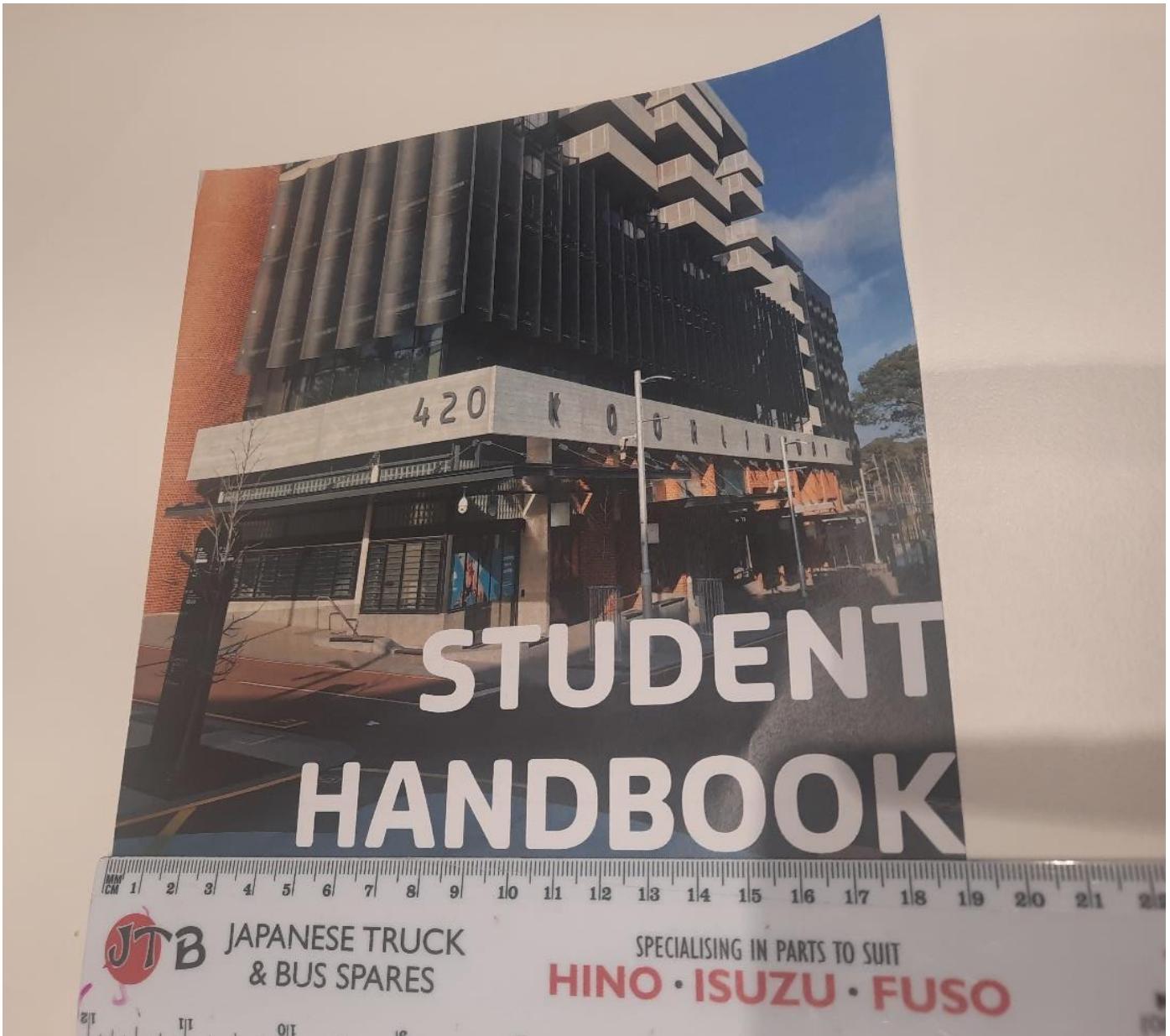
EMTH1019 – Statistics Assignment (20%)

Name: Dhrubo Jouti Das Troyee

Student ID: 90028995

1. Make:





Information on student visas can be found on the Department of Home Affairs website.

Student visa conditions

There are strict conditions attached to Australian student visas, which you need to understand and comply with. **Some of the conditions student visa holders are expected to comply with include:**

- Maintaining a full-time study load. Minimum of 3 units, unless it is the last study period, or been granted special permission by the College.
- Attend and participate in your classes.
- Making satisfactory academic progress ([View our Progress and Intervention Policy](#))
- Completing their studies within the timeframe outlined on their eCoE.
- Working no more than 40 hours per fortnight during any study period.
- Notifying the College of your address within seven days of your arrival, and if you change your address later.
- Obtain and maintain current Overseas Student Health Cover for the duration of your visa.
- Meet additional requirements applicable to minors if you are under 18.
- Maintaining adequate schooling arrangements if you have school-age dependants in Australia.
- Notifying the College of any changes to your visa status, for example being granted permanent resident status.

Please note: Failure to comply with your student visa conditions could impact your ability to stay in the country. The conditions applied to your student visa will be listed in your official Visa Grant Notification email or letter.

You can see a list of all the conditions at
<https://immi.homeaffairs.gov.au/visas/already-have-a-visa/check-visa-details-and-conditions/see-your-visa-conditions>

Failure to adhere to these rules could mean that you will have to leave Australia and you may be in breach of your visa conditions, which can have real-life consequences.

exceptions to this, but the final decision is up to the College.

If you wish to change to another institution (other than the College or Curtin University) then you will need to submit your Application to Transfer Providers to Curtin College with supporting documents, including a personal statement addressing your reasons for wishing to change providers and the letter of offer from the new provider.

Refer to [Transfer Between Registered Provider Policy](#).

Deferring your studies (taking a break for a study period)

If you are on a student visa and currently in Australia, you must provide valid reason and evidence regarding your deferral.

The College will make the decision based on the information you provided. Deferrals are only granted in compassionate and exceptional cases, especially if you are intending to stay in Australia whilst deferring.

Refer to [Deferral, Suspension and Cancellation Policy](#).

Confirmation of Enrolments (CoEs)

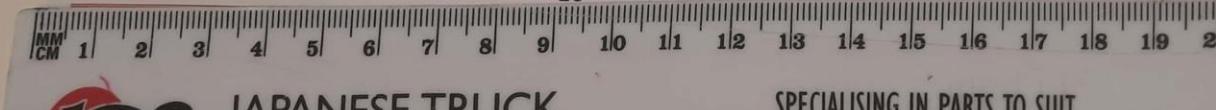
The College will cancel the Confirmation of Enrolments (CoEs) pertaining to the offer provided to you if you decide to withdraw from the Curtin College. This will include any CoEs issued for study at Curtin University, if you had a packaged offer.

For more details on withdrawing, refer to the Deferral, Suspension & Cancellation Policy on the Curtin College website.

International students under the 18 years of age

International students under the age of 18 on arrival in Australia must have approved accommodation and welfare arrangements in place before a student visa can be issued. These arrangements are regulated by the Australian Department of Home Affairs (DHA), as per Standard 5 (Younger Overseas Students) of the National Code 2018

~ 10 ~



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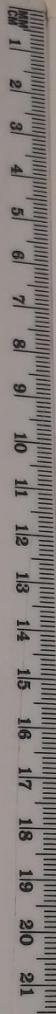
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STUDENT CONDUCT

Your Rights and Responsibilities

Acceptable Behaviour

It is important to understand what is considered acceptable behaviour for students at Curtin College. Whilst as a student at Curtin College it is expected that you will:

- o Turn up to your classes
- o Actively participate in all your classes
- o Check the Student Portal daily, be well informed and respond to emails
- o Meet with fellow students for group work times as arranged - unless prevented by genuine illness
- o Submit assessments on time
- o Abide by the College's Rules and Regulations
- o Pay your tuition fees by the due date
- o Familiarise yourself with the College's Policies, and
- o Keep your contact details and personal details up to date on the Student Portal

Classroom Etiquette

Decisions concerning matters of both classroom management and assessments ultimately lie with your Lecturers. You are encouraged to speak with your Lecturers should you have concerns about your attendance, academic performance, or class participation for a particular unit. If you are unable to resolve issues directly with your Lecturer, then you can seek advice and assistance from the Program Manager or the Student and Academic Services Team.

Dress Code

Students and staff are expected to wear clothing that is clean, modest, and appropriate. Students are discouraged from wearing revealing clothing or clothing with offensive slogans or motifs. Bare feet are not acceptable for safety reasons. Special dress requirements apply for Science students doing lab work. In some cases, a lab coat and safety glasses may be required – the lecturer will advise students in advance.

Mobile Phones

Please ensure your mobile phone is on silent during lectures, around teaching areas and in the library.

If you do not respect the common rules of discipline within an academic environment, you will be referred to the Academic Director.

Where a breach of discipline is particularly serious or deemed to be misconduct, the College's Misconduct Committee may meet to discuss and resolve the matter. The College, on the recommendation of the Misconduct Committee, may suspend or expel a student.

For more details, refer to the Student Code of Conduct, Curtin College Student Charter on the Curtin College website.

Attendance

Regular class attendance is important for academic success. The College monitors attendance. You must attend at least 80% of your classes to have the best chance of completing your units successfully.

You may have valid reasons for not attending your class. If this is the case, then you may either attend a repeat class in the same week where available or apply to have your absence approved.

If you miss a class you must complete an Explained Absence Form, which is available via the Student Portal under Academic Forms & Documents. This is to be submitted to Reception or sent to support@curtincollege.edu.au within five days of the missed class.

For more details please refer to the Progress and Intervention Policy.

Academic Integrity

Academic integrity refers to the principles and rules of behaviour of the academic community. It is essential that you understand academic integrity and behave in a manner according to these principles. Information on Academic Integrity and online resources are located on the Study Kiosk.

The College regards Academic Misconduct as a serious offence. Examples of Academic Misconduct include:

0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 250 260 270

8 7 6 5 4 3 2 1 0 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

975618

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Supplementary Exams
The Board of Examiners may only approve supplementary assessments for students who have obtained an overall mark of at least 45 in the unit and who have obtained a CWA greater than 50. Students granted a supplementary assessment will receive notification by the College through their student e-mail.

The College will only grant a maximum of two supplementary assessments to the same student in a program. For more details, refer to the Supplementary Assessment Policy on the Curtin College website.

Support After Results are Released
Support is available to students after results are released. Students who are identified as needing support will be contacted by the College following the Board of Examiners. Please take up the opportunity to discuss your progress in order to make the best use of your time at Curtin College.

Refer to the Awards and Graduation Policy and to the Program Managers.

Grades
Curtin College uses the following gradings

Grade/Mark Units – Final Grades

Grade	Mark (Range)	Description
10	100	High Distinction
9	90 - 99	High Distinction
8	80 - 89	High Distinction
7	70 - 79	Distinction
6	60 - 69	Credit
5	50 - 59	Pass
PA	0-100	Pass
F	0 - 99	Fail
PX	0-100	Pass After Supplementary Assessment
FX	0-100	Fail After Supplementary Assessment
NC	0 - 99	Fail Incomplete
ANN	0	Result Annulled Due to Academic Misconduct
W		Withdrawn from unit
EX		Exemption

In-class Assessments
Upon notification of the mark awarded for an assessment item, if you believe that your result is incorrect or unfair you may submit an appeal against your mark. You have ten (10) days to submit your appeal from the release of the grade.

Final- Result Appeal
Upon notification of the final grade, if you believe that your result is incorrect or unfair you may submit an appeal against your grade. You have ten (10) days to submit your appeal from when the College releases the final grades.

Appeal Against Admission
Anyone dissatisfied with the outcome of their application to attend Curtin College, can appeal this decision.
For more details, refer to the Appeals Policy and the Complaints Policy on the Curtin College website.

Complaints
Before lodging a formal complaint, it is recommended that you contact the relevant academic or administrative staff to discuss the matter and see if you can come to an acceptable resolution. If your complaint cannot be resolved, then you can go through the College's Complaints process as outlined in the Colleges Complaints Policy.

To do this you will need to lodge your complaint in writing by completing the 'Complaint form', located on the Curtin College website and also located within the Student Portal, and email it to complaints@curtincollege.edu.au within 10 working days of the complaint issue becoming known.

If, after this you are unsatisfied with the outcome, and believe you did not have sufficient opportunity to present your case, or the decision was made contrary to the evidence provided, or the College did not follow its policies and procedures, you may lodge a written statement of your complaint to the Complaints Committee via complaints@curtincollege.edu.au.

This statement must be lodged within 10 working days of receiving the written notification.

~ 6 ~

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7	70–79	Distinction
6	60–69	Credit
5	50–59	Pass
PA	0–100	Pass
F	0–99	Fail
PX	0–100	Pass After Supplementary Assessment
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Continuing students can generate a provisional invoice via the Student Portal to determine the tuition fees they will be required to pay for the selected units.

You can pay tuition fees by using a credit card, telegraphic transfer or bank payment details are listed on the provisional invoice. **Curtin College does not accept cash payment or cheques.** All telegraphic transfer payments can take up to 7 working days so it is recommended that payment be made in advance so that funds are received prior to the enrolment deadline.

Please remember to include bank transfer fees and your student ID with any transfer. You should email a copy of your transaction receipt to fees@curtincollege.edu.au.

Fee-HELP

Curtin College is an approved FEE-HELP provider. FEE-HELP is a loan scheme that assists eligible fee-paying students to pay all or part of their tuition fees. Australian Citizens or students holding a Permanent Humanitarian Visa studying a Diploma program at Curtin College may be eligible for FEE-HELP.

The scheme allows Diploma students to defer payment of part of their tuition fees.

A loan fee of 20% applies to FEE-HELP loans for undergraduate courses of study. The Australian Government pays the amount of the course fees directly to the College. Students repay their loan through the tax system once their income is above the minimum threshold for compulsory repayment. Students must provide the College with their Australian Tax File Number before Financial Census date, if fail provide student will withdraw from the course.

Pass Rate requirement (from 1 January 2018) - you must pass at least 50% of your units and not have withdraw (W) as grade to continue to receive FEE-HELP; if you do not, your FEE-HELP will be cancelled for the following study period and you will have to pay your own fees.

For further information visit
<https://www.studyassist.gov.au/help-loans/fee-help>

Curtin College Refund Policy provides guidance to prospective, commencing, and continuing students on the circumstances under which students are eligible for fee refunds.

For more information, please refer to the Refund Policy on the Curtin College website

USI Number – Your Education Number for Life

Your USI (Unique Student Identifier) is your individual education number for life. It also creates an online record of your Australian training achievements. Students must provide the College with USI number if fail to provide the College with the USI students will not be able to view the results and block from enrolment.

You need a USI if you are:

- undertaking Nationally Recognised Training
- a higher education student seeking Commonwealth financial assistance (eg a FEE-HELP loan)
- a higher education student graduating in 2023 or beyond

Follow the links below for everything you need to know about creating, finding, managing and sharing your USI:
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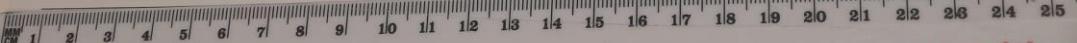
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~~Healthdirect Australia language support.~~
These sessions are available to all students at Curtin College and do not require making an appointment. Sessions begin Week 3 of every Trimester and end in Week 12.

WORK & STUDENT LIFE

Work life balance

Sometimes it is hard to have a good work-life balance. Information on how to balance both can be found on the Health direct website - <https://www.healthdirect.gov.au/work-life-balance>

Looking for part-time work

There are many jobs available in Perth for student, both while you study and after you graduate. Working while you study is not only a great way to earn some extra money, it will give you the chance to be part of the community and experience the Australian way of life. Check out the information on the [StudyPerth](#) website, [Seek](#), [Fairwork Ombudsman](#) on how to find a job in Perth.

Seek provides templates for resume, cover letters and tips on how to master your interview skills.

Ombudsman is an Australian organisation handling complaints, conducting investigations. If you think you are being treated unfairly at workplace by your employer, you can file a complaint online. Ombudsman is to protect employee and employer.

Accommodation

Newly arrived students should devote AT LEAST ONE WEEK to finding and settling into suitable accommodation. Ideally your accommodation should be close to campus and public transport.

contract, pay one month's rent in advance, as well as pay a refundable deposit (bond) in the event of any damage during the rental period.

Any lease or housing arrangements you agree to, are between you and the accommodation provider involved.

BEWARE! Especially when looking for accommodation on websites such as Gumtree. Here are some tips to protect yourself:

- Be wary of offers that seem to be too good to be true (eg. luxurious apartments being offered for very cheap rent);
Always inspect the property yourself or, if you can't, get someone else to inspect it;
- Be wary of paying via money wire transfer. Wire transfer is often a sign of a scam because the money is difficult to recover;
- Make your own enquiries and don't rely on information provided to you from anyone recommended by the person advertising the property;
- Use your common sense and be alert to inconsistencies in stories. Ask questions about who would do the rental inspections.
- By law, any bond must be lodged with Bond Administrator.

For further information, visit the [Consumer Protection](#), [Australian Homestay Network](#) or ask one of the Student & Academic Services team

Rental Agreement

The Department of Commerce provides services and information to consumers, including advice to tenants. Make sure you read rent agreements/contracts very carefully. Breaking an agreement prior to the expiry date will incur additional costs.

The person who signs the contract is legally bound to fulfil all obligations and pay any money owing.

For further information, visit [Department of Commerce – Renting a Home](#).

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2.Collect data:

No of square	Size 1	size2s	size3	size4
1.	188.0	189.4	190.0	190.0
2.	190.0	190.0	191.0	190.0
3.	190.1	191.0	191.0	191.0
4.	190.1	191.1	191.1	191.1
5.	190.1	191.1	191.1	191.5
6.	190.1	191.5	192.0	192.0

3.critical Knowledge:

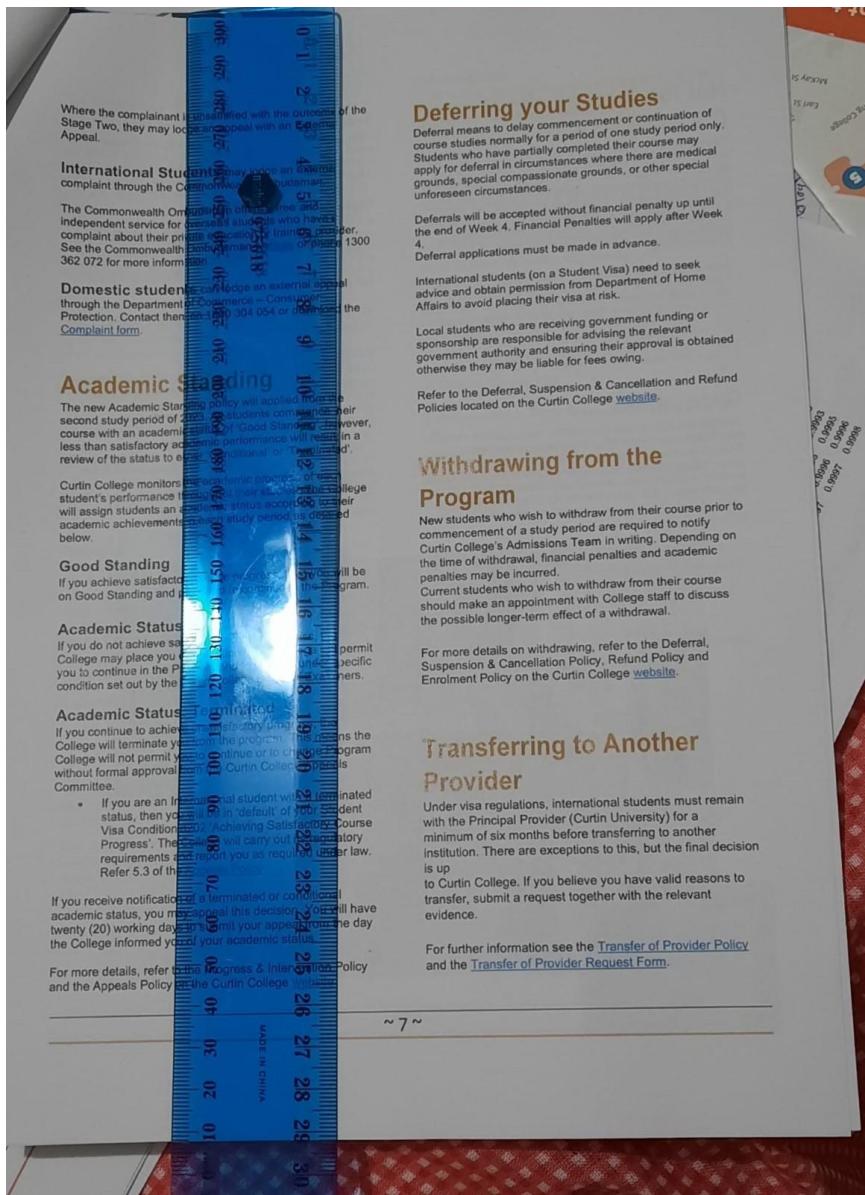
The video taught us that we can estimate to the ones position on a ruler, which is one power of ten smaller than the value of the lines. For example, if we count to 6, we can estimate the number to the tenth place and call it 6.6 or 6.7. Alternatively, this ruler can give us a measurement of 6.75, which is more accurate. This measurement contains three significant figures because we include the final estimated digit in our calculation. Since everyone was worth, whichever figure that is estimated to be. The projected digital measurement is one power of 10 cm smaller than the actual measurement of 1 cm. Additionally, four significant figures are more accurate than three.

There are also some rules for determining significant figures .

The student's provided side lengths for Square 1 (190.0, 190.5, 190.5, 190.0) and Square 2 (188.5, 191.0, 188.5, 191.0). are not consistent.

Though Square 1 is seems to be precise and accurate, whereas Square 2 is neither. As they are far away from each other. In conclusion, it may be concluded that the student data is unreliable because they are so apart from one another. However, they did not watch the video.

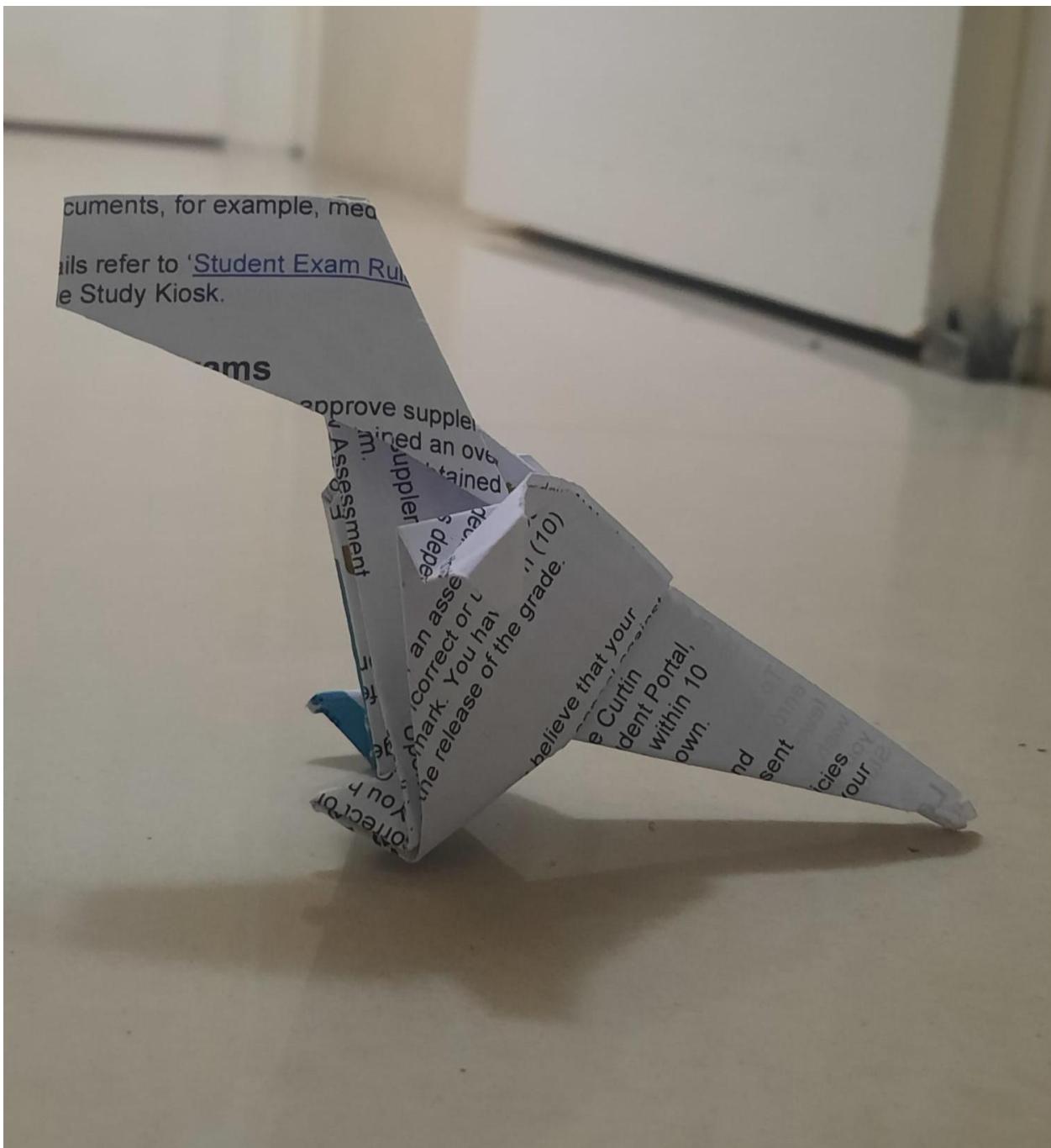
b) To verify the measuring device that I used is mm scale

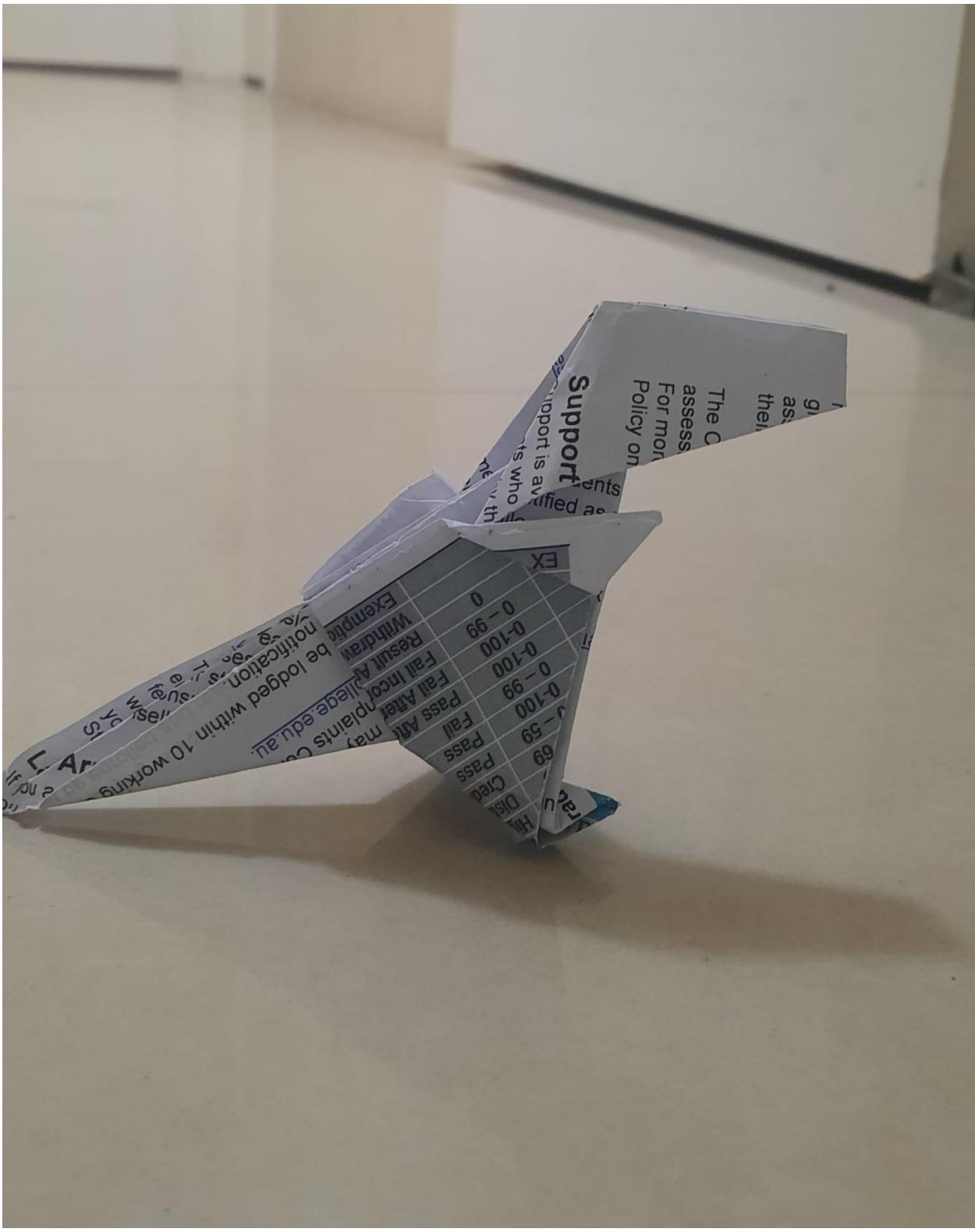


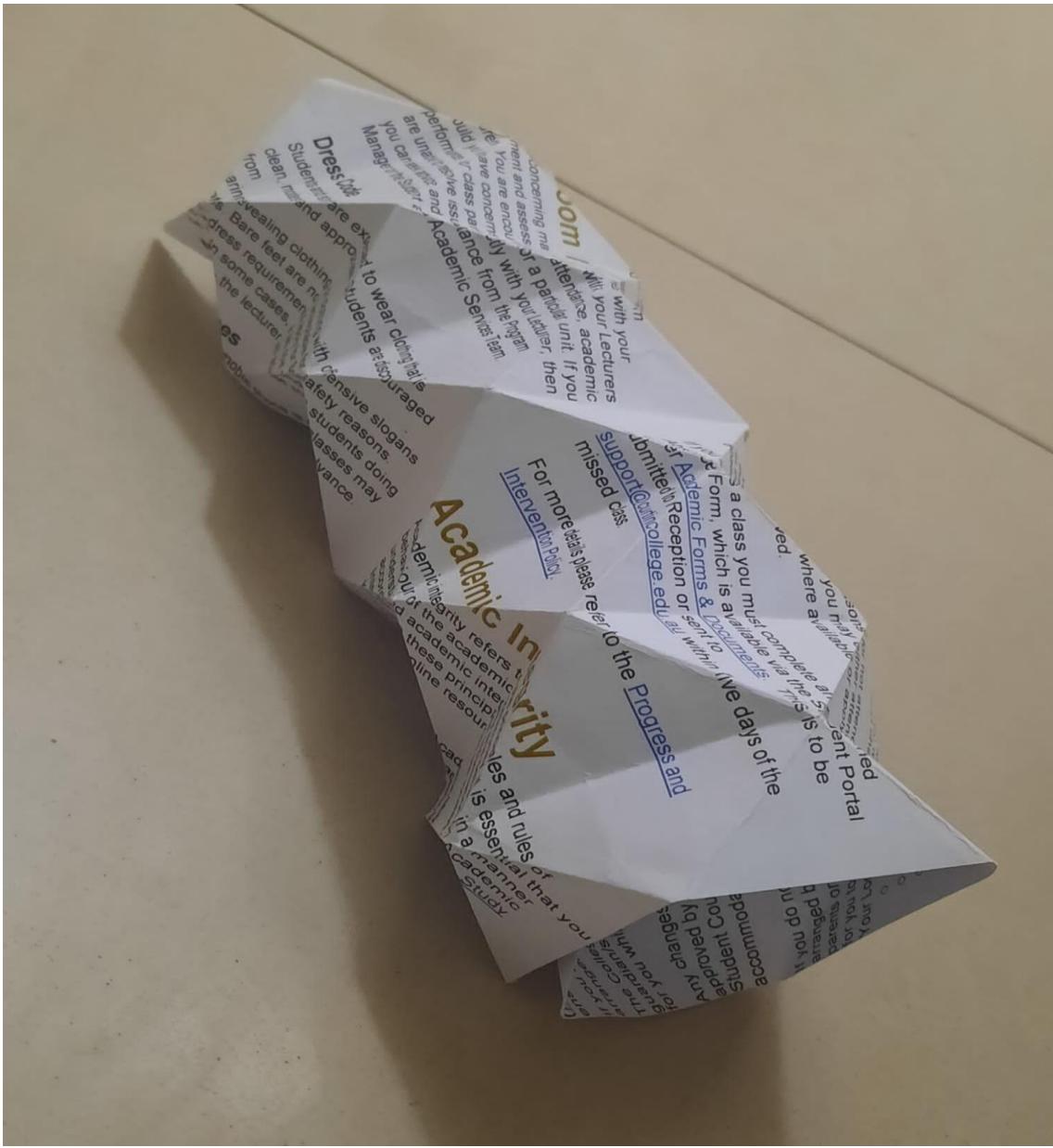
.

4. Construct:

(a) A Tyrannosaurus





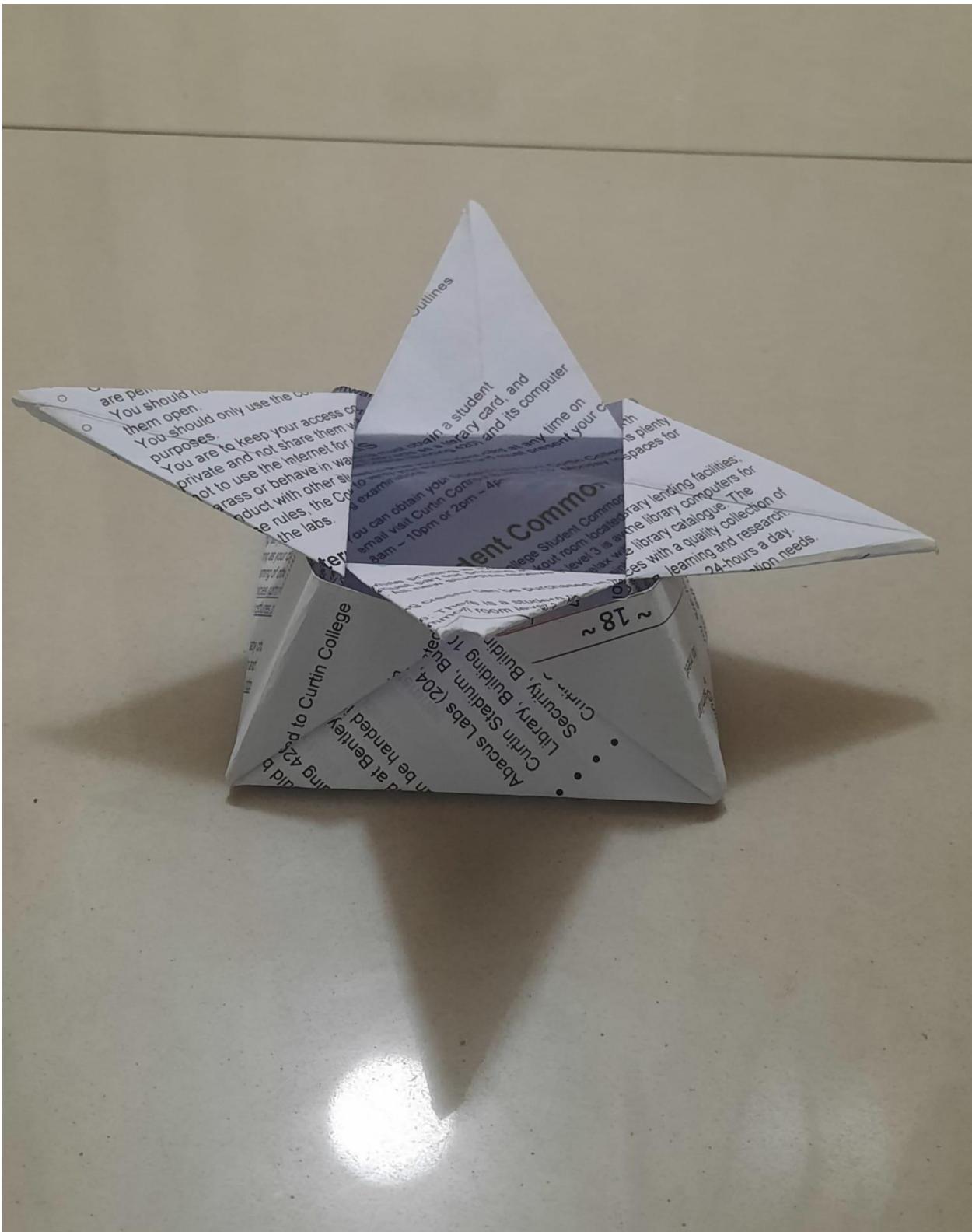


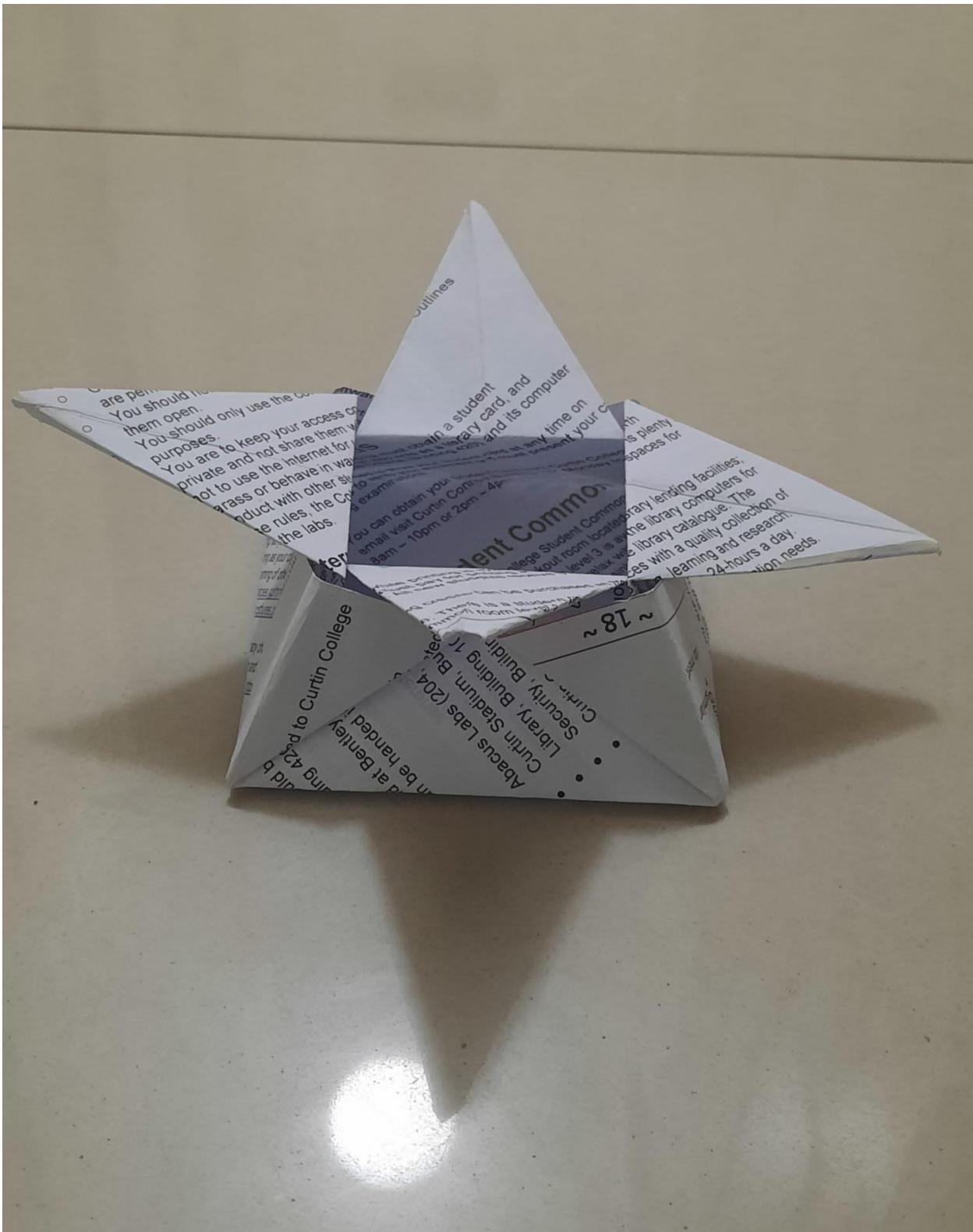
(B) X form Span :

(c) 'v' pleats with at least 6 folds



(d) Origami star box:





(e) Herringbone with at least 4 horizontal and 4 vertical folds





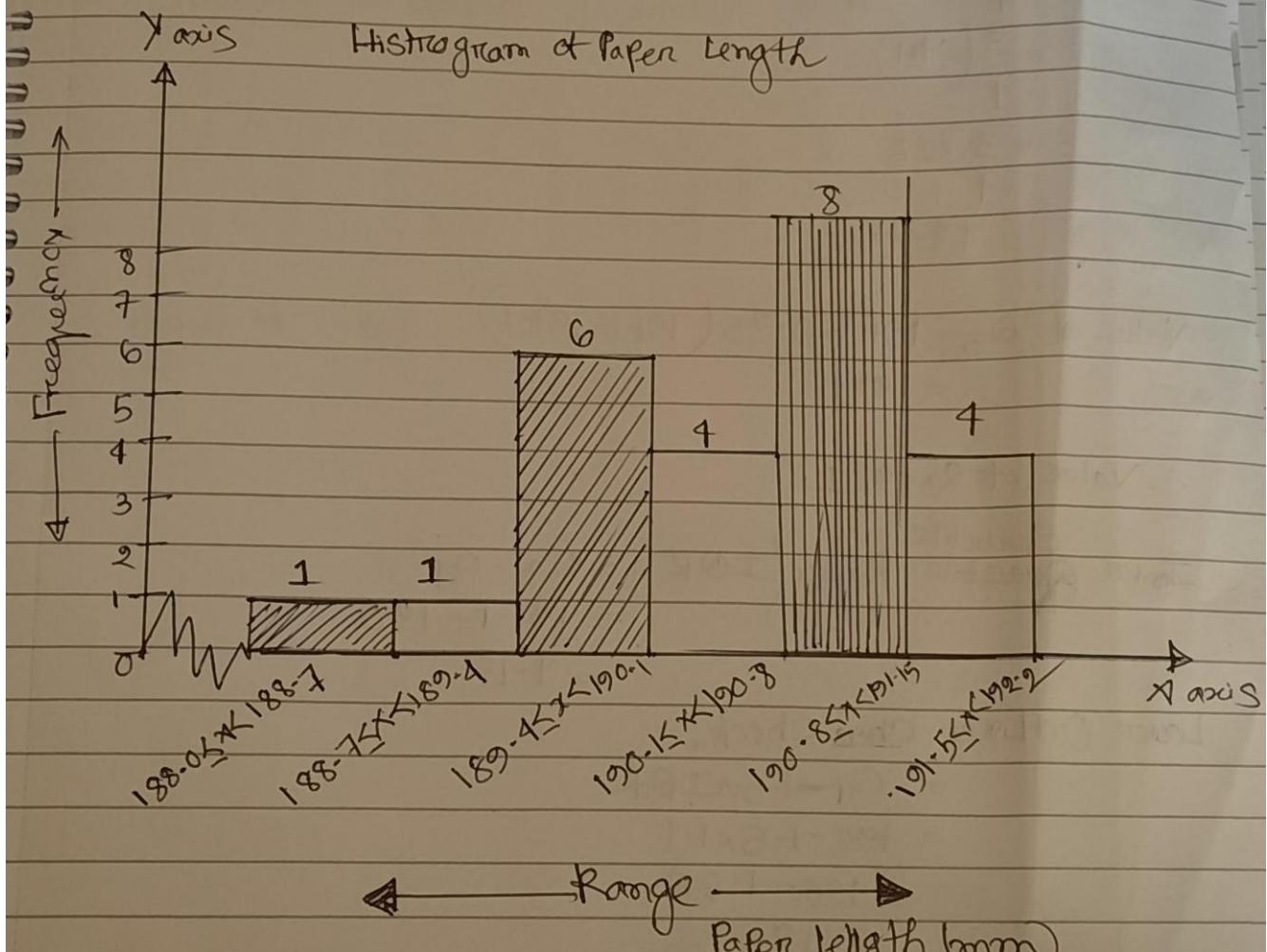


(F) Hyperbolic Parabola:

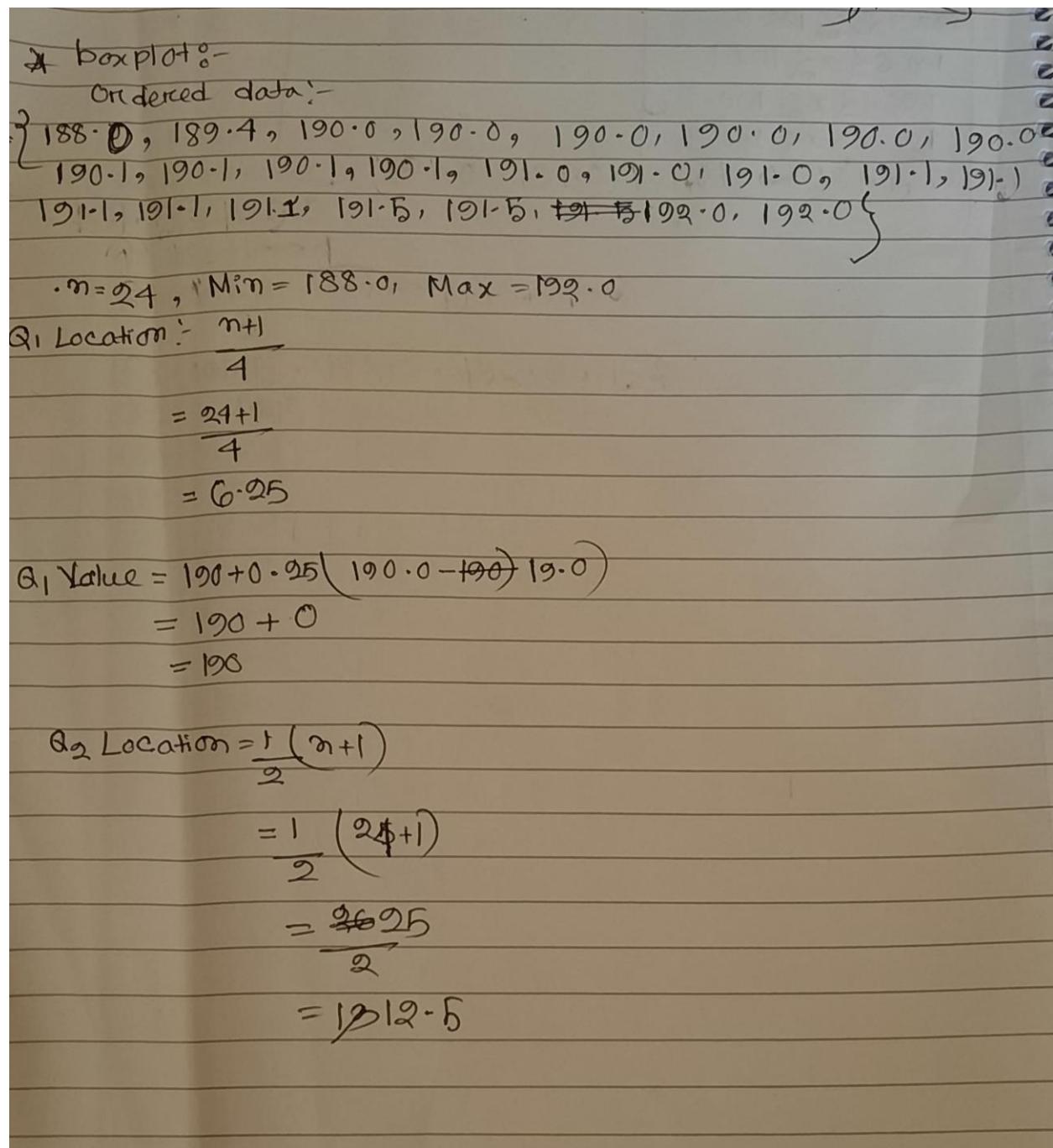
(5). Data Visualization:

a) A single informative histogram.

Range	Frequency
$188.0 \leq x < 188.7$	1
$188.7 \leq x < 189.4$	1
$189.4 \leq x < 190.1$	6
$190.1 \leq x < 190.8$	1
$190.8 \leq x < 191.5$	8
$191.5 \leq x < 192.2$	4



b) A single informative box-plot.



$$\begin{aligned}\text{Value of } Q_2 &= 190.1 + 0.5(191.0 - 190.1) \\ &= 190.1 + 0.5 \times 0.9 \\ &= 190.1 + 0.45 \\ &= 190.55\end{aligned}$$

Value of Q_2
 $\therefore \text{Value of } Q_2 = 190.55$

$$\begin{aligned}Q_3 \text{ Position} &= \frac{3}{4}(n+1) \\ &= \frac{3}{4}(24+1) \\ &= \frac{3}{4} \times 25 \\ &= 18.75\end{aligned}$$

$$\begin{aligned}\therefore \text{Value of } Q_3 &= 191.1 + 0.75(191.1 - 191.1) \\ &= 191.1\end{aligned}$$

$\therefore \text{Value of } Q_3 = 191.1$

$$\begin{aligned}\therefore \text{Inner } \cancel{\text{Quartile}} \text{ Range (IQR)} &= Q_3 - Q_1 \\ &= 191.1 - 190 \\ &= 1.1\end{aligned}$$

Lower Outlier Check:-

$$\begin{aligned}&= Q_1 - 1.5 * IQR \\ &= 190.1 - 1.5 \times 1.1 \\ &= 190.1 - 1.65 \\ &\approx 188.35\end{aligned}$$

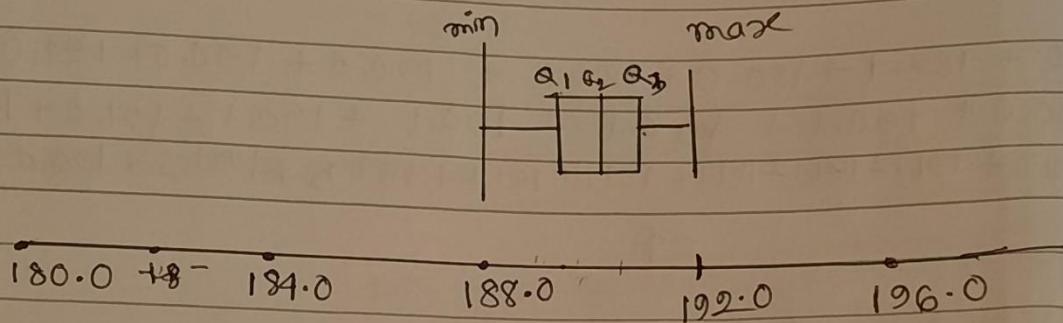
Upper Outlier Check:-

$$\begin{aligned}&\cancel{Q_3 + 1.5 * IQR} \\ &= Q_3 + 1.5 * IQR \\ &= 191.1 + (1.5 \times 1.1) = 192.75\end{aligned}$$

No value < 188.5

5 number Summary:- { min, Q₁, Q₂, Q₃, Max }
{ 188.0, 190, 190.55, 191.1, 192.0 }

■ Making a boxplot according to the information.



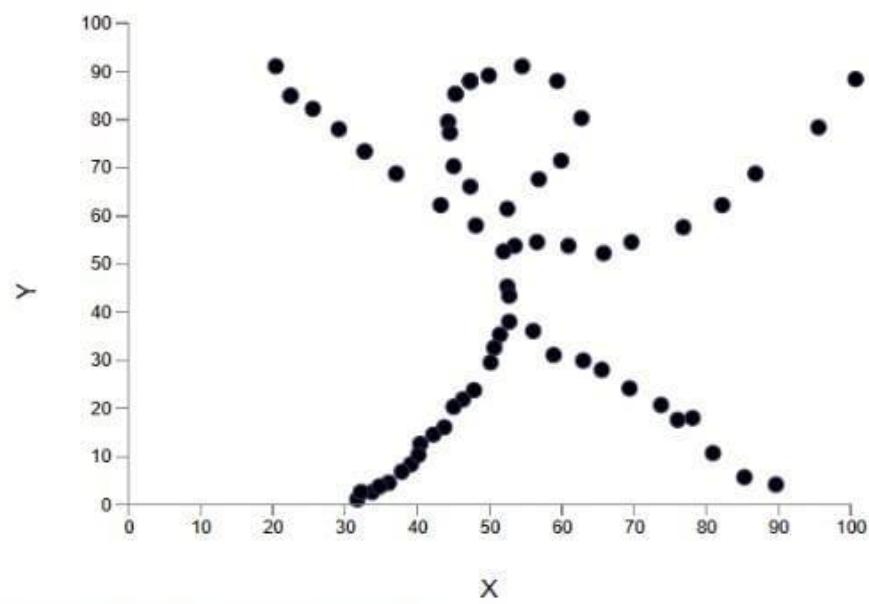
(6) Datasources:

A) Provide a single image (snip) that shows your “databot” plot and the summary statistics.

X name: X	X min: 0	X max: 100
Y name: Y	Y min: 0	Y max: 100

N = 70 ; X mean = 52.619 ; X SD = 17.7047 ; Y mean = 49.658 ; Y SD = 30.272 ; Pearson correlation = -0.0817

Slope = N/A ; Intercept = N/A



B) Discuss the following “graphs of data sets with similar summary statistics look the same” Ensure that you use your “databot” as evidence in your discussion.

The statement "graphs of data sets with similar summary statistics look the same" is incorrect . The graph that given above illustrates, using same statistic the output will not be same, it will look different .Moreover can be said that, using visualization techniques is more important rather than making assumptions based on statistics.

(7). Analyse

a) Calculate the mean and standard deviation of the population data from Collect Data. (2 marks)

a) Collected data:

188.0	189.4	190.0	190.0	190.0	190.0	190.0
190.0	190.0	190.0	190.1	190.1	190.1	190.1
191.0	191.0	191.0	191.1	191.1	191.1	191.1
191.1	191.5	191.5	191.5	191.5	192.0	192.0
n=24		191.1		191.5		

$$\text{Population mean } (\bar{x}) = \frac{\sum (x_i - \bar{x})^2}{n}$$

$$\begin{aligned} & 188.0 + 189.4 + 190.0 + 190.0 + 190.0 + 190.0 + 190.0 \\ & + 190.0 + 190.1 + 190.1 + 190.1 + 190.1 + 190.1 + 191.0 + 191.0 \\ & + 191.0 + 191.1 + 191.1 + 191.1 + 191.1 + 191.1 + 191.5 + 191.5 + 192.0 + 192.0 \end{aligned}$$

24

$$\bar{x} = \frac{4573.3}{24}$$

$$\therefore \bar{x} = 190.55416$$

$$\therefore M\bar{x} = 190.554$$

$$\text{Standard Deviation } (\sigma) = \sqrt{\frac{\sum (x_i - \bar{x})^2}{n}}$$

$$(188.0 - 190.554)^2 + (189.4 - 190.554)^2 + \dots + (192.0 - 190.554)^2$$

24

$$\therefore \sigma = 0.879857 = 0.8799$$

$$\therefore \sigma = 0.8799$$

b) Take a random sample of 8 side lengths. Prove with evidence how you ensured that each element of the sample was chosen randomly. (4 marks)

For this work, I use a random number generator from Google. In this case, I clicked "generate" after selecting the maximum and minimum value. I repeat this process eight times, and my chosen random numbers are listed below:

Google



random number generator



C++

Images

With names

Best

Excel

All filters ▾

166



Min

100.0

Max

200.0

GENERATE



Feedback

Google



random number generator



C++

Images

With names

Best

Excel

All filters ▾

155



Min

100.0

Max

190

GENERATE

Google



random number generator



C++

Images

With names

Best

Excel

All filters ▾

209



Min

100.0

Max

300

GENERATE

Google



random number generator



C++

Images

With names

Best

Excel

All filters ▾

181



Min

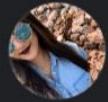
100.0

Max

300

GENERATE

Google



random number generator



C++

Images

With names

Best

Excel

All filters ▾

221



Min

100.0

Max

300

GENERATE

Google



random number generator



C++

Images

With names

Best

Excel

All filters ▾

199



Min

100.0

Max

220

GENERATE

Google



random number generator



C++

Images

With names

Best

Excel

All filters ▾

167



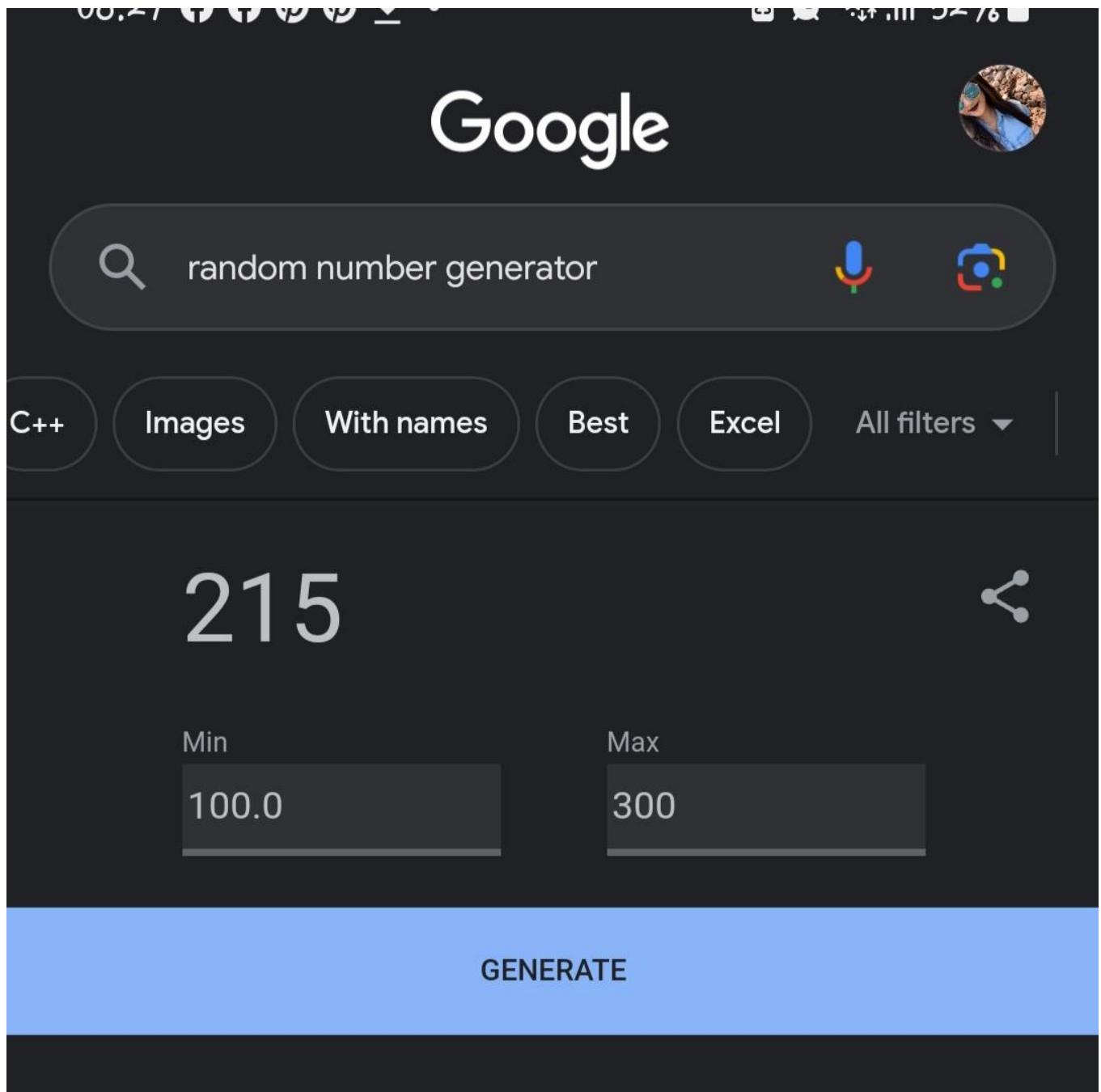
Min

100.0

Max

300

GENERATE



c) Calculate the mean and standard deviation of the sample you obtained in (b). (2 marks)

calculate the sample's mean and standard deviation

6. G n=8
Random Sample data: {166.0, 155.0, 209.0, 181.0, 221.0, 199.0,
167.0, 215.0}

Sample mean = $\bar{x} = \frac{\sum x_i}{n}$

$$\therefore \bar{x} = \frac{166.0 + 155.0 + 209.0 + 181.0 + 221.0 + 199.0 + 167.0 + 215.0}{8}$$
$$= \frac{1513}{8}$$
$$= 189.125$$

Sample standard deviation: $s = \sqrt{\frac{\sum (x_i - \bar{x})^2}{n-1}}$

$$\therefore s = \sqrt{\frac{(166.0 - 189.125)^2 + (155.0 - 189.125)^2 + \dots + (215.0 - 189.125)^2}{8-1}}$$
$$\therefore s = \frac{176.153}{7}$$
$$\therefore s = 25.16481$$
$$s \approx 25.16$$

d) Determine the 90% confidence interval of an SRS of size n=8 if:

- σ is known and it is assumed that the population is normally distributed. (2 marks)**

d) determine the 90% C.I on SRS of $n=8$ if

~~A~~ σ is unknown and it is assumed that population is Normal distribution.

$$\bar{x} = CI = \bar{x} \pm \left(\frac{z_{\alpha/2}}{\sigma/\sqrt{n}} \right) \left(\frac{\sigma}{\sqrt{n}} \right)$$

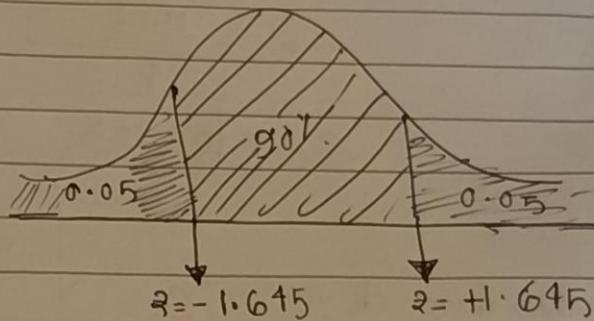
$$n=8$$

$$\bar{x} = 189.125$$

$$\sigma = 0.8799$$

$$\frac{\alpha}{2} = \frac{1 - 0.90}{2}$$

$$\therefore \frac{\alpha}{2} = 0.05$$



$$\begin{aligned} \therefore \bar{x} = CI &= \bar{x} \pm \left(\frac{z_{\alpha/2}}{\sigma/\sqrt{n}} \right) \left(\frac{\sigma}{\sqrt{n}} \right) \\ &= 189.125 \pm \left(1.645 \right) \times \frac{0.8799}{\sqrt{8}} \end{aligned}$$

$$= 189.125 \pm 0.18093$$

$$= [188.941, 189.306]$$

- σ is not known but if it is assumed that the population is normally distributed. (3 marks)

~~Q1~~ S is unknown but it is assumed that the population is normal distribution

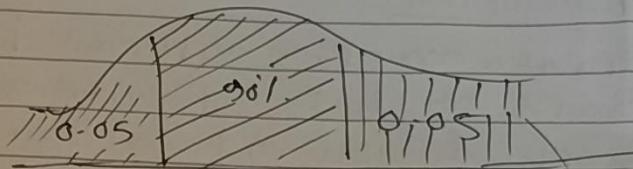
$$CI = \bar{x} \pm \left(t_{\alpha/2, n-1} \right) \left(\frac{s}{\sqrt{n}} \right)$$

$$\bar{x} = 189.125$$

$$S = 25.16$$

$$n = 8$$

$$\alpha/2 = 0.90 \quad -0.05$$



$$\therefore CI = \bar{x} \left(t_{\alpha/2, n-1} \right) \cdot \left(\frac{s}{\sqrt{n}} \right)$$

$$0.90 = 189.25 \pm (1.895) \frac{25}{\sqrt{8}}$$

$$= 189.25 + 3.35$$

$$= [185.90, 192.59]$$

e) Origami artists want their squares to have side lengths that are almost the same. If an Origami artist took a sample of 8 side lengths from a pack of origami paper, discuss if they would prefer a pack labelled as having a 99% confidence interval, a 90% confidence interval or something else? (<200 words). (2 marks)

A pack of origami paper with a 90% confidence interval on the label would be preferred by the origami artist.

A higher confidence level gives more assurance that the side lengths in the sample accurately represent the side lengths of the full pack. Furthermore, it is certain that the pack's actual average side length of the origami paper falls within the specified range in this case.

With a 99% confidence interval, the artist can be more confident that the side lengths of the squares in the pack are quite similar to one another because the interval will be wider, which will reduce errors. and more precise .

A 90% confidence interval, on the other hand, would offer a narrower range, providing less assurance and maybe more fluctuation in side lengths, which might not satisfy the artist's needs for accurate and uniform squares. So, I believe, the artist would prefer the pack labelled 90% confidence interval because it is more precise than 99% confidence level.

f) Create and test an appropriate hypothesis that evaluates whether the origami paper meets the side length specification in Make at a 5% significance when σ is unknown for an SRS of size n=8. (8 marks)

(f) Codify $n=8$

$$\bar{x} = 189.125$$

Significance, $\alpha = 5\%$.

Popen ~~is~~ $\mu = 190$.

$$S = 25.16$$

(g) Assumption:-

Population assumption as Normal distribution

Sample not bias, representation of Pop

Sample distribution have sample SD, $S = 25.16$

assuming Pop is Normal distribution.

(h) H & Pothesis :-

$$H_0: \mu_0 = 190$$

$$H_A: \mu_A \neq 190$$

(i) Test Statistics:-

$$t = \frac{\bar{x} - \mu}{\frac{S}{\sqrt{n}}}$$

$$= \frac{189.125 - 190}{\frac{25.16}{\sqrt{8}}}$$

$$= \frac{-0.875}{\pm 8.8951}$$

$$= -0.098365$$

\therefore Test value = -0.098365

2 tailed hypothesis,

significance critical values,

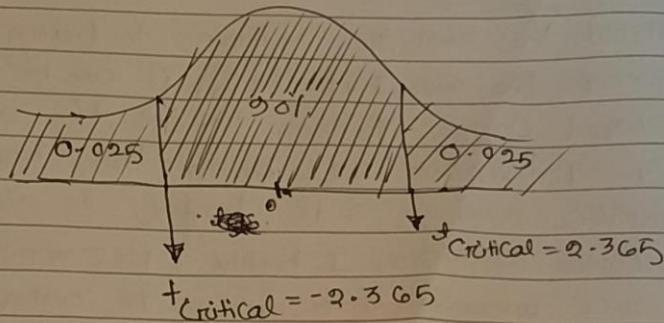
$$\bar{\sigma}_1 = \alpha = 0.05$$

$$\therefore \frac{\alpha}{2} = \frac{0.05}{2} = 0.025$$

$$DOF = m - 1$$

$$= 8 - 1$$

$$\therefore = 7$$



$$t_{\text{test}} = 0.0984 \quad (+\text{critical Value}) = 2.365$$

- Write a technical conclusion that summarizes the findings of your analysis. (1 mark)

$$t_{\text{test}} = 0.0984 < t_{(\text{critical Value})} = 2.365$$

Conclusion:-

At the ~~0.5~~. Significance level that I have reason to be confident that I don't need to reject the Null Hypothesis as our calculated test statistics value is not in the critical region, according to the assumption and analysis.

- Re-write the conclusion so that someone who is interested in recycled origami paper but who is unfamiliar with statistics can understand what the hypothesis was evaluating. There should be no mention of significance, z, t or even standard deviation. (<200 words). (1 mark)

Recommendations

Whilst this analysis appears to prove convincing evidence to accept the null hypothesis, it can be said that the recycled Origami Paper meets the side length at in highly specification rate which. This indicates that the sample's average side length is close to the 190cm. Therefore after analysis, I highly recommend to others, if they are interested in using recycled Origami Paper, they are definitely expect it to meet the require side length at in accordance with the requirements.