

6/12 → 3/6

Problem (circle) : R1 / R2 / A1 / A2 Group number 21

1. Formatting:

all margins 2.5cm

12 pt size

no raw R code or output

max 7 pages

informative title

member names on all pgs

all pages numbered

no blurry plots (NOT png)

2. Introduction/Background:

brief statement of scientific question

all variables defined

3. EDA:

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

4. Model fitting:

define model mathematically

state how model fitted (ie, LS)

CLEARLY describe how model selected

define all terms

5. Model assessment:

CLEARLY state model assumptions:

1. errors have mean 0
2. errors are homoscedastic (same variance)
3. errors are uncorrelated
4. errors are normally distributed

carry out assessment (graphics):

qq normal plot of residuals,

residuals vs. fitted

Don't need SS formulas

individual (NOT the boxplots)

0.75/1

1.75/2

0.5/1  
over-parameterized as written

0.25/2

4.25/0

you have too many coefs

unclear

0.25/

6. Write out final estimated model **mathematically**

hat on response variable

max 2 sig digits on coefs

0.75/

7. Plots:

label size (not too small)

informative captions

placement

**NOT BLURRY**

0.25/

8. Conclusions

recap analysis

state and interpret

not correct

main findings

logic hard to follow

spell check

0.5/

9. Overall presentation (clarity of explanations and language, appropriate citations / references) :

poor

satisfactory

good

excellent

-cite primary refs (not [2])

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1.75/4

5.25/12 → 2.625/6

Problem (circle): R1 / R2 / A1 / A2 Group number 22

0.5/1

1. Formatting:

all margins 2.5cm

informative title

12 pt size

member names on all pgs

no raw R code or output

all pages numbered

max 7 pages

no blurry plots (**NOT** png)

0.5/1

2. Introduction/Background:

brief statement of scientific question

not entirely correct

all variables defined

1/2

3. EDA:

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

incomplete

0.25/2

4. Model fitting:

Table 1 incomplete

define model mathematically

state how model fitted (ie, LS)

CLEARLY describe how model selected

define all terms

0.5/2

5. Model assessment:

CLEARLY state model assumptions:

assuming 1+3?

1. errors have mean 0
2. errors are homoscedastic (same variance)
3. errors are uncorrelated
4. errors are normally distributed

carry out assessment (graphics):

SQUARE qq normal plot of residuals,  
residuals vs. fitted

interpret (Don't just conclude)  
interpretation not entirely correct

2.75/8

0.75/1

- Table 2 confusing

6. Write out final estimated model **mathematically**

hat on response variable

max **2 sig digits** on coefs

1/1

7. Plots:

(incomplete)

label size (not too small)

informative captions

placement

**NOT BLURRY**

0.25/1

8. Conclusions

recap analysis

state and interpret

not correct

main findings

logic hard to follow

0.5/1

9. Overall presentation (clarity of explanations and language, appropriate citations / references):

poor

satisfactory

good

excellent

- no refs

- rather incomplete

2.5/4



⊛ pas nécessaire à re-faire

Problem (circle): R1 / R2 / A1 / A2 Group number 23

1. Formatting:

all margins 2.5cm

**informative title**

12 pt size

member names on all pgs

**no raw R code or output**

all pages numbered

max 7 pages

no blurry plots (**NOT** png)

2. Introduction/Background:

brief statement of scientific question

all variables defined

(sat + fight only implicitly defined)

3. EDA:

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

4. Model fitting:

define model mathematically

state how model fitted (ie, LS)

CLEARLY describe how model selected

define all terms

$\alpha, \mu, \beta, \gamma, \delta, \epsilon, \dots$

5. Model assessment:

CLEARLY state model assumptions:

1. errors have mean 0
2. errors are homoscedastic (same variance)
3. errors are uncorrelated
4. errors are normally distributed

carry out assessment (graphics):

SQUARE qq normal plot of residuals,  
residuals vs. fitted

) expliquer + interpreter  
(pas seulement en conclure)

6.5/0

0.75/1

6. Write out final estimated model **mathematically**

### hat on response variable

max 2 sig digits on coefs

↳ aussi sur les coeffs estimés

## 7. Plots:

label size (not too small)

informative captions

placement

**NOT BLURRY**

## 8. Conclusions

## recap analysis

state and interpret

## main findings

not entirely correct

9. Overall presentation (clarity of explanations and language, appropriate citations / references):

poor

satisfactory

good

excellent

1. What is the main purpose of the study?  
 2. What are the research objectives?  
 3. What is the significance of the study?  
 4. What are the limitations of the study?  
 5. What are the conclusions of the study?  
 6. What are the recommendations of the study?  
 7. What are the future research directions?  
 8. What are the acknowledgments of the study?  
 9. What are the references of the study?  
 10. What are the appendices of the study?

3.5/4

5.25/12 → 2.625/6

Problem (circle): R1 / R2 / A1 / A2 Group number 25

1. Formatting:

all margins 2.5cm

**informative title**

12 pt size

member names on all pgs

**no raw R code or output**

all pages numbered

max 7 pages

no blurry plots (**NOT** png)

2. Introduction/Background:

brief statement of scientific question

all variables defined

3. EDA:

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

4. Model fitting:

define model mathematically

state how model fitted (ie, LS)

CLEARLY describe how model selected

define all terms

5. Model assessment:

CLEARLY state model assumptions:

1. errors have mean 0
2. errors are homoscedastic (same variance)
3. errors are uncorrelated
4. errors are normally distributed

carry out assessment (graphics):

qq normal plot of residuals,

residuals vs. fitted

3.75/8

not done?

0.5/1

6. Write out final estimated model **mathematically**

hat on response variable

max **2 sig digits** on coefs

0.5/1

7. Plots:

label size (not too small)

informative captions

placement

**NOT BLURRY**

- plots not explained

0.5/1

8. Conclusions

recap analysis

state and interpret

main findings

not entirely correct

0.5/1

9. Overall presentation (clarity of explanations and language, appropriate citations / references):

poor

satisfactory

good

excellent

- cite primary refs (not statistics, jim, etc.)
- use words, there are too many bullet points
- no ANOVA tables

1.5/4

7/12 → 3.5/6

Problem (circle): R1 / R2 / A1 / A2 Group number 26

1. Formatting:

all margins 2.5cm

**informative title**

12 pt size

member names on all pgs

**no raw R code or output**

all pages numbered

max 7 pages

no blurry plots (**NOT** png)

2. Introduction/Background:

brief statement of scientific question

all variables defined

3. EDA:

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

4. Model fitting:

define model mathematically

state how model fitted (ie, LS)

CLEARLY describe how model selected

define all terms

5. Model assessment:

CLEARLY state model assumptions:

1. errors have mean 0
2. errors are homoscedastic (same variance)
3. errors are uncorrelated
4. errors are normally distributed

carry out assessment (graphics):

SQUARE - qq normal plot of residuals,

residuals vs. fitted

EXPLAIN plots + interpret using these assumptions

$0.5/1$ 

hat o

max 2 sig digits on coefs

**NOT BLURRY**

0.25/1

(+EDA)

## main findings

0.5/1

excellent

$$2.25 / 4$$

Problem (circle): R1 / R2 / A1 / A2 Group number

27

8.25/12 → 7.125/6

1. Formatting:

all margins 2.5cm

informative title

12 pt size

member names on all pgs

no raw R code or output

all pages numbered

max 7 pages

no blurry plots (NOT png)

2. Introduction/Background:

brief statement of scientific question

all variables defined

3. EDA:

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

interaction plots

4. Model fitting:

define model mathematically - use indicators

state how model fitted (ie, LS)

(CLEARLY) describe how model selected

define all terms

indicators  
Anova Table(s)?

5. Model assessment:

CLEARLY state model assumptions:

1. errors have mean 0
2. errors are homoscedastic (same variance)
3. errors are uncorrelated
4. errors are normally distributed

carry out assessment (graphics):

SQUARE qq normal plot of residuals,

residuals vs. fitted

interpret plot (don't just conclude)

5.5/8



use indicators + y in words

**6. Write out final estimated model mathematically**

### hat on response variable

max 2 sig digits on coefs

## 7. Plots:

label size (not too small)

informative captions

placement

**NOT BLURRY**

0.25/1

## 8. Conclusions

## recap analysis

(+ EDTA)

state and interpret

## main findings

not completely

0.75/1

9. Overall presentation (clarity of explanations and language, appropriate citations / references) :

poor

**satisfactory**

good

excellent

$$2.75 \overline{) 14}$$

8/12 → 4/6

Problem (circle): R1 / R2 / A1 / A2 Group number 23

1. Formatting:

all margins 2.5cm

**informative title**

12 pt size

member names on all pgs

**no raw R code or output**

all pages numbered

max 7 pages

no blurry plots (**NOT** png)

2. Introduction/Background:

brief statement of scientific question (not entirely correct)

all variables defined

Lightness not lightning

3. EDA:

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

label factors in design plot

4. Model fitting:

- not true that all 2-way interaction model is saturated

define model mathematically

state how model fitted (ie, LS)

CLEARLY describe how model selected

define all terms

- Turkey  
- why only 1 obs?  
- model 2 anova table

5. Model assessment:

CLEARLY state model assumptions:

1. errors have mean 0
2. errors are homoscedastic (same variance)
3. errors are uncorrelated
4. errors are normally distributed

carry out assessment (graphics):

qq normal plot of residuals,

residuals vs. fitted

explain plots and interpret, don't just conclude

5/8



Problem (circle): R1 / R2 / A1 / A2 Group number 29

7.25/12 → 3.625/6

1. Formatting:

all margins 2.5cm

**informative title**

12 pt size

member names on all pgs

**no raw R code or output**

all pages numbered

max 7 pages

no blurry plots (**NOT** png)

- too many digits

2. Introduction/Background:

brief statement of scientific question

all variables defined

3. EDA:

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

4. Model fitting:

define model mathematically

state how model fitted (ie, LS)

**CLEARLY** describe how model selected

define all terms

5. Model assessment:

**CLEARLY** state model assumptions:

1. errors have mean 0
2. errors are homoscedastic (same variance)
3. errors are uncorrelated
4. errors are normally distributed

carry out assessment (graphics):

SQUART

qq normal plot of residuals,

residuals vs. fitted

- to evaluate homoscedasticity  
Explain and interpret plots

not done?

### hat on response variable

## 7. Plots:

informative captions

**NOT BLURRY**

Too vague and  
analysis general

state and interpret

not done

Logic a little hard to follow

satisfactory

excellent

- somewhat incomplete

6/12 → 3/6

Problem (circle): R1 / R2 / A1 / A2 Group number 30

1. Formatting:

all margins 2.5cm

12 pt size

**no raw R code or output**

max 7 pages

**informative title**

**member names on all pgs**

**all pages numbered**

**no blurry plots (NOT png)**

2. Introduction/Background:

brief statement of scientific question

all variables defined

not entirely correct

3. EDA:

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

Exploratory mean etc not useful for categorical vars  
- Don't need graph 4  
- appears to be over-parameterized as written - interaction plots  
- stratified boxplots

4. Model fitting:

define model mathematically

state how model fitted (ie, LS)

CLEARLY describe how model selected

define all terms

anova tables?

very incomplete

5. Model assessment:

CLEARLY state model assumptions:

1. errors have mean 0
2. errors are homoscedastic (same variance)
3. errors are uncorrelated
4. errors are normally distributed

carry out assessment (graphics):

qq normal plot of residuals,

residuals vs. fitted

explain + interpret  
(don't just conclude)

0.25/1

0.75/1

1/2

0.5/2

1.25/2

3.75/8

(written twice)

6. Write out final estimated model **mathematically**

hat on response variable

max 2 sig digits on coefs

7. Plots:

label size (not too small)

informative captions

placement

**NOT BLURRY**

8. Conclusions

recap analysis

state and interpret

main findings

not correct

9. Overall presentation (clarity of explanations and language, appropriate citations / references) :

poor

satisfactory

good

excellent

- no refs

- logic hard to follow

- very incomplete

- use words not bullet points

2.25/4



Problem (circle): R1 / R2 / A1 / A2 Group number 33

7.5/12 → 3.75/6

1. Formatting:

all margins 2.5cm

informative title

12 pt size

member names on all pgs

no raw R code or output

all pages numbered

max 7 pages

no blurry plots (NOT png)

model specifications  
under table 3

2. Introduction/Background:

brief statement of scientific question

all variables defined

3. EDA:

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

4. Model fitting:

define model mathematically

state how model fitted (ie, LS)

CLEARLY describe how model selected

define all terms

5. Model assessment:

CLEARLY state model assumptions:

1. errors have mean 0
2. errors are homoscedastic (same variance)
3. errors are uncorrelated
4. errors are normally distributed

carry out assessment (graphics):

SQUARE - qq normal plot of residuals,

residuals vs. fitted

Explain clearly, then  
correctly interpret plots

4.75/8

1/1  
- Don't use <sup>(log)</sup> actual illum, it is a separate outcome

6. Write out final estimated model **mathematically**

hat on response variable

max 2 sig digits on coefs

0.75/1  
7. Plots:

label size (not too small)

informative captions

placement

**NOT BLURRY**

0.25/1  
8. Conclusions

recap analysis

you don't measure  
state and interpret

model precision  
main findings

vague

0.75/1  
9. Overall presentation (clarity of explanations and language, appropriate citations / references):

poor

satisfactory

good

excellent

- Square QQ plots

- only use the word 'significant' in the context of a statistical test (not colloquial use)

2.75/4

Problem (circle): R1 / R2 / A1 / A2 Group number

34

5.5/12 → 2.75/6

1. Formatting:

all margins 2.5cm

informative title

12 pt size

member names on all pgs

no raw R code or output

all pages numbered

max 7 pages

no blurry plots (NOT png)

2. Introduction/Background:

brief statement of scientific question

(not quite correct)

all variables defined

use the term 'hue' rather than illuminant

3. EDA:

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

incomplete

4. Model fitting:

define model mathematically

state how model fitted (ie, LS)

CLEARLY describe how model selected

define all terms

Before fitting

5. Model assessment:

CLEARLY state model assumptions:

1. errors have mean 0
2. errors are homoscedastic (same variance)
3. errors are uncorrelated
4. errors are normally distributed

carry out assessment (graphics):

SQUARE qq normal plot of residuals,  
residuals vs. fitted

Explain and interpret  
plots, don't just  
conclude

3.75/8

0/1 not done?

6. Write out final estimated model **mathematically**

hat on response variable

max **2 sig digits** on coefs

7. Plots:

label size (not too small)

informative captions

placement

**NOT BLURRY**

8. Conclusions

recap analysis

state and interpret

not correct

main findings

9. Overall presentation (clarity of explanations and language, appropriate citations / references):

poor

satisfactory

good

excellent

logic sometimes hard to follow

- some statement overly vague

- cannot do F-test with 3-way interaction  
because the model is saturated so there  
are no error df

1.75/4

Problem (circle): R1 / R2 / A1 / **A2** Group number 35

8.25/12 → 4.125/6

1. Formatting:

all margins 2.5cm

**informative title**

12 pt size

member names on all pgs

**no raw R code or output**

all pages numbered

max 7 pages

no blurry plots (**NOT** png)

2. Introduction/Background:

brief statement of scientific question

all variables defined

3. EDA:

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

incomplete

4. Model fitting:

define model mathematically

state how model fitted (ie, LS)

**CLEARLY** describe how model selected

define all terms

5. Model assessment:

**CLEARLY** state model assumptions:

1. errors have mean 0
2. errors are homoscedastic (same variance)
3. errors are uncorrelated
4. errors are normally distributed

carry out assessment (graphics):

qq normal plot of residuals,

residuals vs. fitted

First explain plots,  
then interpret,  
then conclude

5.5/8

0.75/1

make sure you put the selected model

6. Write out final estimated model **mathematically**

hat on response variable

max 2 sig digits on coefs

4/1

7. Plots:

label size (not too small)

informative captions

placement

**NOT BLURRY**

0.25/1

8. Conclusions

verified?

recap analysis

(+ EDA)

state and interpret

not completely correct

main findings

spell/grammar check

0.5/1

9. Overall presentation (clarity of explanations and language, appropriate citations / references):

poor

satisfactory

good

excellent

- square QQ plots

- use more paragraphing - in particular,

pages 4, 6 + conclusion are difficult to follow

2.5/4



Problem (circle) : R1 / R2 / A1 / A2 Group number

40

9/12 → 4.5/6

1. Formatting:

all margins 2.5cm

informative title

12 pt size

member names on all pgs

no raw R code or output

all pages numbered

max 7 pages

no blurry plots (NOT png)

2. Introduction/Background:

brief statement of scientific question

all variables defined

(not entirely correct)

3. EDA:

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

4. Model fitting:

define model mathematically

state how model fitted (ie, LS)

CLEARLY describe how model selected

define all terms

over-parametrized  
as written  
GC - Cannot do F-tests; This is a saturated model  
so no error df

5. Model assessment:

CLEARLY state model assumptions:

1. errors have mean 0
2. errors are homoscedastic (same variance)
3. errors are uncorrelated
4. errors are normally distributed

carry out assessment (graphics):

qq normal plot of residuals,

residuals vs. fitted

) needs clearer explanation  
and interpretation

6.5/8



0.5/1

6. Write out final estimated model mathematically

hat on response variable

max 2 sig digits on coefs

not explicitly done - what are the coefs for the final selected model (no interaction)

0.5/1

7. Plots:

label size (not too small)

informative captions

placement

NOT BLURRY

Figure 9a confusing

0.5/1

8. Conclusions

recap analysis

state and interpret

(+EDA)

main findings

not 'confirm' not correct

0.5/1

9. Overall presentation (clarity of explanations and language, appropriate citations / references):

poor

satisfactory

good

excellent

a little hard to follow

-no refs

- several vague statements: for example, 'homoscedasticity... maintains the reliability of statistical inferences' - What does this mean? How so? Hint: it's an assumption for a valid F-test (otherwise the 'p-value' is meaningless)

2.5/4

9.5/12 → 4.75/6

Problem (circle): R1 / R2 / A1 / A2 Group number 9.2

1. Formatting:

1/1

all margins 2.5cm

**informative title**

12 pt size

member names on all pgs

**no raw R code or output**

all pages numbered

max 7 pages

no blurry plots (**NOT** png)

2. Introduction/Background:

1/1

brief statement of scientific question

(not completely correct)

all variables defined

3. EDA:

2/2

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

4. Model fitting:

1.5/2

over-parametrized  
as written

define model mathematically

state how model fitted (ie, LS)

(CLEARLY) describe how model selected

define all terms

5. Model assessment:

1/2

CLEARLY state model assumptions:

1. errors have mean 0
2. errors are homoscedastic (same variance)
3. errors are uncorrelated
4. errors are normally distributed

carry out assessment (graphics):

SQUARE- qq normal plot of residuals,

residuals vs. fitted

) Explain + interpret these plots

6.5/8

0.75/1

max 2 sig digits on coefs

0.5/1

informative captions

**NOT BLURRY**

5.75/11

state and interpret

## main findings

not completely  
correct

5.75/11

excellent

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.