

R1: Group 22 9/12 → 4.5/6

1. Formatting:

0.75/0.75

- 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)

1/1

2. Introduction/Background:

- brief statement of scientific question
- all variables defined

1.5/2

3. EDA:

Figures too small

- univariate numerical
- univariate graphical
- bivariate numerical (cor)
- bivariate graphical

1.25/2

4. Model fitting:

First write the model mathematically  
state how model fitted (ie, LS)

- CLEARLY** describe how model selected
- define all terms **VIF**
- AIC considers p-values?

1.25/2

5. Model assessment:

CLEARLY state model assumptions:

- errors have mean 0
- errors are homoscedastic (same variance)
- errors are uncorrelated
- errors are normally distributed

carry out assessment (graphics):  
qq normal plot of residuals, - square residuals vs. fitted

- clearly interpret plots

5.75/7.75

1/1  
6. Write out final estimated model **mathematically**

**hat** on response variable

max **2 sig digits** on coefs

0.75/1.25  
7. Plots.

label size (not too small)

(captions)

not completely  
informative

placement

**NOT BLURRY**

0.5/1  
8. Conclusions

*somewhat generic*

recap analysis

state main findings

1/1  
9. Language quality:

poor

satisfactory

good

excellent

10. Other comments:

- NO refs

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3.25/4.25

R1: Group 31 7.25/12 → 3.625/6

1. Formatting:

0.5 / 0.75

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 R formulas in plots

no blurry plots (NOT png)

2. Introduction/Background:

1/1

brief statement of scientific question

all variables defined

3. EDA: Don't need boxplot figure!  
SQUARE QQ

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical - SQUARE pairs plots

all vars

4. Model fitting:

1/2

First write the model mathematically  
state how model fitted (ie, LS)

CLEARLY describe how model selected

define all terms

$R^2 / R^2_{adj}$

where are model df? only 1 more df, why not use that model?

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):

qq normal plot of residuals, SQUARE residuals vs. fitted

indep obs  $\equiv$  indep errors  $\Rightarrow$  redundant  
clearly explain plot interp

4.25/7.75

1/1  
0.75/1.25

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

**hat** on response variable

max **2 sig digits** on coefs

7. Plots:

label size (not too small)

captions

placement

**NOT BLURRY**

0.25/1

8. Conclusions

recap analysis

*very generic*  
state main findings

9. Language quality:

poor

satisfactory

good

excellent

10. Other comments:

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3/4.25

R1: Group 32 7/12 → 3.5/6

1. Formatting:

0.75/0.75

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

all variables defined

(Hard to read inline - put in 'quotation'-type paragraph)

3. EDA:

0.5/2

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

4. Model fitting:

0.75/2

state how model fitted (ie, LS)

CLEARLY describe how model selected

define all terms

→ P-value criterion?

How does backward achieve 'most accurate' model?? What does this mean?

5. Model assessment:

1.25/2

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):

qq normal plot of residuals, residuals vs. fitted

careful + correct plot interp

4.25

0.5/1

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

**hat** on response variable

max **2 sig digits** on coefs

1/1.25

7. Plots:

label size (not too small)

captions

placement

**NOT BLURRY**

0.25/1

8. Conclusions

recap analysis

*very vague/generic*  
state main findings

1/1

9. Language quality:

poor

satisfactory

**good**

excellent

10. Other comments:

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2.75/4.25

R1: Group 33  $7.75/12 \rightarrow$  3.875/6

0.75/0.75

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**)

1/1

2. Introduction/Background:

- brief statement of scientific question
- all variables defined

1/2

3. EDA: SQUARE QQ

- univariate numerical
- univariate graphical
- bivariate numerical (cor)
- bivariate graphical

1/2

4. Model fitting:

$\rightarrow$  histograms (all vars) not boxplots  
First write model mathematically  
state how model fitted (ie, LS)

CLEARLY describe how model selected

define all terms stepwise/AIC

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):  
qq normal plot of residuals,  
residuals vs. fitted

- you don't 'evaluate validity'  
- more careful plot interpretation

4.75/7.75

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

hat on response variable

max 2 sig digits on coefs

7. Plots: *informative 'pretty' labels*

*label size (not too small)*

*captions*

placement

**NOT BLURRY**

8. Conclusions

*recap analysis*

state main findings

*→ use paragraphing (more)*

9. Language quality:

poor

satisfactory

*good*

excellent

10. Other comments:

*- no refs*

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R1: Group 34 6.75/12 → 3.375/6

1. Formatting:

0.5/0.75

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

→ R formulas in plots + tables  
no blurry plots (NOT png)

2. Introduction/Background:

1/1

brief statement of scientific question

all variables defined

3. EDA:

1/2

univariate numerical

(some hard to read)  
bivariate numerical (cor)

univariate graphical

bivariate graphical square

4. Model fitting:

1/2

First write model mathematically  
state how model fitted (ie, LS)

→ + all pairs

CLEARLY describe how model selected

define all terms

→ Don't need model  $R^2/R^2_{adj}$  to tell you direction of association

5. Model assessment:

0.75/1

CLEARLY state model assumptions:

you can get that from correlation

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

— line is a reference line  
(not 'theoretical' line)

← incorrect interpretation  
⇒ carefully interpret plots

4.25/7.75

0.5/1

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

**hat** on response variable

max 2 sig digits on coefs

0.75/1.25

7. Plots:

- no R formulas

label size (not too small)

captions

placement

**NOT BLURRY**

0.25/1

8. Conclusions

recap analysis

too short/vague  
state main findings

9. Language quality:

poor

satisfactory

good

excellent

10. Other comments:

- Table 2 p-values > 1

- You usually don't need 2 highly corr vars  
in model → multicollinearity

2.5/4.25

R1: Group 35 9.5/12 → 4.75/6

1. Formatting:

0.75/0.75 all margins 2.5cm  
12 pt size - refs

informative title

member names on all pgs

no raw R code or output

all pages numbered

max 7 pages

no blurry plots (NOT png)

1/1  
2. Introduction/Background:

brief statement of scientific question

all variables defined - hard to read inline, put in

1/2  
3. EDA:

var 1: ~ ~ ~ ← separate paragraph  
var 2: ~ ~ ~ etc matrix

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical - all pairs

0.75/2  
4. Model fitting:

First write the mathematical model

state how model fitted (ie, LS)

CLEARLY describe how model selected

define all terms

AIC / stepwise (forward/backward)

1.5/2  
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, - SQUARE  
residuals vs. fitted

- assumption 'satisfied' (not 'validated')  
- carefully explain interpretation  
(don't use the word 'significant')

5/7.75

1/1

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

**hat** on response variable

max **2 sig digits** on coefs

1.25/1.25

7. Plots:

label size (not too small)

captions

placement

**NOT BLURRY**

1/1

8. Conclusions

recap analysis

state main findings

1.25/1

9. Language quality:

poor

satisfactory

good

excellent

10. Other comments:

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4.5/4.25

R1: Group 3/6 5.25/12 → 2.625/6

1. Formatting:

0.75/0.75

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:

0.75/1

brief statement of scientific question

all variables defined → in intro, not in separate sections  
→ very spread out so hard to read/keep track

3. EDA:

0.75/2

univariate numerical → all in 1 table

bivariate numerical (cor)

univariate graphical

bivariate graphical

all pairs

4. Model fitting:

0.75/2

- first write model mathematically

state how model fitted (ie, LS)

- CLEARLY, in fitting section

CLEARLY describe how model selected

define all terms

vif / stepwise

5. Model assessment:

0/2

not done

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

3/7.75

0.5/  
0.75/  
1.25  
0/  
1/  
1/  
1/

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

hat on response variable

max **2 sig digits** on coefs

7. Plots:

label size (not too small)  
placement

captions

**NOT BLURRY**

8. Conclusions

*not done*

recap analysis

state main findings

9. Language quality:

poor

satisfactory

good

excellent

10. Other comments:

- no refs

- incomplete

2.25/4.25

R1: Group 37 7/12 → 3.5/6

1. Formatting:

0.5/0.75

all margins 2.5cm

informative title

12 pt size

member names on all pgs

R warning  
no raw R code or output

all pages numbered

max 7 pages

→ R formulas

no blurry plots (NOT png)

- too many digits

2. Introduction/Background:

4/1

brief statement of scientific question

all variables defined

3. EDA:

0.5/2

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

all pairs

4. Model fitting:

1/2

First write model mathematically

state how model fitted (ie, LS)

CLEARLY describe how model selected

(also could consider

define all terms

AIC / backward / forward

$R^2_{adj}$

5. Model assessment:

0.75/2

CLEARLY state model assumptions:

1. errors have mean 0

2. errors are homoscedastic (same variance)

3. errors are uncorrelated

4. errors are normally distributed

↳ more clearly, you are doing it iteratively NOT continuously

carry out assessment (graphics):

qq normal plot of residuals, residuals vs. fitted

- SQUARE

assumptions 'correct' ?? more like

'approximately satisfied'

3.75/7.75

← incorrect plot interps, not all interpretations given

0.5/1

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

hat on response variable

max 2 sig digits on coefs

1.25/1.25

7. Plots:

label size (not too small)

captions

placement

**NOT BLURRY**

0.5/1

8. Conclusions

(recap analysis incomplete)

\* interpretation  
state main findings

1/1

9. Language quality:

poor

satisfactory

good

excellent

10. Other comments:

- no refs (put at end, not in text)

- Don't need table SI

- selection not 'propagation'

- highlight lowest AIC in tables

\* cannot determine causation, only association

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\_\_\_\_\_  
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3.25/4.25



R1: Group 39 9.25/12 → 4.625/6

1. Formatting:

0.75/0.75

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

all variables defined

3. EDA: - put Table 1 BELOW the description

1/2

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

4. Model fitting:

1.5/2

state how model fitted (ie, LS)

CLEARLY describe how model selected

Explain likelihood method

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):

qq normal plot of residuals,  
residuals vs. fitted

- careful interpretation of plots

5.25/7.75

1/1  
1.25/1.25  
0.75/1  
1/1  
6. Write out final estimated model **mathematically**

**hat** on response variable

max **2 sig digits** on coefs

7. Plots:

label size (not too small)

captions

placement

**NOT BLURRY**

8. Conclusions

(+ EDA)  
recap analysis

\*interpretation  
state main findings

9. Language quality:

poor

satisfactory

good

excellent

10. Other comments:

\*Your 'insights' are all framed as 'suggestions, but this is not correct - predicted mortgage yield is (positive when all predictors 0/ etc) - also, you don't need the reg coef to determine correlation, just compute corr.

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4/4.25

R1: Group 40 9/12 → 4.5/6

1. Formatting:

0.75/0.75

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**)

- too many digits

2. Introduction/Background:

1/1

brief statement of scientific question

all variables defined

(response? - make more clear)

3. EDA:

2/2

- Don't need figures 2/3

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

4. Model fitting:

1.5/2

state how model fitted (ie, LS)

**CLEARLY** describe how model selected

define all terms

5. Model assessment:

0.75/2

**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):

qq normal plot of residuals,  
residuals vs. fitted

- plot interpretations not clear

6/7.75

0.5/1

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

**hat** on response variable

max **2 sig digits** on coefs

1/1.25

7. Plots:

label size (not too small)

captions

placement

**NOT BLURRY**

0.5/1

8. Conclusions

(+EDA recap analysis)

use paragraphs

~~\*~~ interpretation  
state main findings

1/1

9. Language quality:

poor

satisfactory

**good**

excellent

10. Other comments:

- Schaaf (not SHAAF)

- model refinement paragraph unclear

~~\*~~ cannot conclude causation, only association

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3/4.25

R1: Group 42 9.25/12 → 4.625/6

1. Formatting:

0.75/0.75

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 (p-values)

2. Introduction/Background:

1/1

brief statement of scientific question

all variables defined (new paragraph)

3. EDA:

1.75/2

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical - SQUARE pairs plots

4. Model fitting:

1.25/2

- Don't need figures 3+4

First write out the mathematical model

state how model fitted (ie, LS)

CLEARLY describe how model selected

define all terms

not model 'validity'

5. Model assessment:

1.75/2

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):

qq normal plot of residuals, - SQUARE  
residuals vs. fitted

- QQ not on diagonal - compared to a reference line (see documentation for qqline())

6.5/7.75

0.5/1

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

*no error*

**hat** on response variable

max 2 sig digits on coefs

0.75/1.25

7. Plots:

label size (not too small)

(captions) - *more informative*

placement

**NOT BLURRY**

0.5/1

8. Conclusions

*- use paragraphing*

recap analysis

state main findings

*(careful with interpretation)*

4/1

9. Language quality:

poor

satisfactory

**good**

excellent

10. Other comments:

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2.75/4.25

R1: Group 45 6.5/12 → 3.25/6

1. Formatting:

all margins 2.5cm

0.75/0.75 → 12 pt size

**no raw R code or output**

max 7 pages

+ Don't need my name  
informative title  
member names on all pgs  
all pages numbered  
no blurry plots (NOT png)

2. Introduction/Background:

1/1

brief statement of scientific question

all variables defined

3. EDA:

1/2

univariate numerical

univariate graphical

bivariate numerical (cor)

bivariate graphical

4. Model fitting:

0.5/2

→ why only doing simple reg??

state how model fitted (ie, LS)

**CLEARLY** describe how model selected

define all terms

Do mult reg

use numerical methods

5. Model assessment:

0.25/2

very incomplete

**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

- SQUARE

- plot interpretations? Make clear

3.5/7.75

*(OK given errors)*

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

**hat** on response variable

**max 2 sig digits** on coefs

*1/1*  
*0.75/1*  
*1.25*

7. Plots: *+ shapes*

*label size* (not too small)

captions

placement

**NOT BLURRY**

*0.25/1*

8. Conclusions

*recap analysis*

state main findings

*vague and generic*

9. Language quality:

poor

*satisfactory*

*good*

excellent

*1/1*

10. Other comments:

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*3/4.25*



R1: Group 70 7.5/12 → 3.75/6

1. Formatting:

0.75/0.75

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

all variables defined

3. EDA:

1/2

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

pairs plots

4. Model fitting:

0.75/2

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):  
qq normal plot of residuals,  
residuals vs. fitted

'assess' (not 'ensure')  
normality

- plot interpretations?
- you assess not 'validate'

4.5/7.75

0.5/1

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

**hat** on response variable

max **2 sig digits** on coefs

1/1.25

7. Plots:

label size (not too small)

captions

placement

**NOT BLURRY**

0.5/1

8. Conclusions

recap analysis

state main findings

1/1

9. Language quality:

poor

satisfactory

good

excellent

10. Other comments:

- log trans 'necessitated' ? unclear

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3/4.25

R1: Group 71 5.5/12 → 2.75/6

1. Formatting:

0.75/0.75

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

all variables defined

3. EDA: - Don't need table 3

0.75/2

univariate numerical

bivariate numerical (cor)

univariate graphical

bivariate graphical

4. Model fitting:

0.5/2

- hists for all vars ← plots too small

First write the mathematical model  
state how model fitted (ie, LS)

CLEARLY describe how model selected

define all terms

very incomplete

5. Model assessment:

0.75/2

CLEARLY state model assumptions:

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

very vague

carry out assessment (graphics):  
qq normal plot of residuals,  
residuals vs. fitted

- square

- The plots don't check, you use the plots to assess...

- you assess not 'validate' assumptions

3.75/7.75

0.25/1

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

**hat** on response variable

**max 2 sig digits** on coefs

0.5/1.25

7. Plots:

label size (not too small)

captions

placement

**NOT BLURRY**

0/1

8. Conclusions

recap analysis

*very generic and vague*  
state main findings

4/1

9. Language quality:

poor

~~satisfactory~~ good

excellent

10. Other comments:

- exploratory data analysis  
- layout not good - too much blank space

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1.75/4.25

R1: Group 82 7/12 → 3.5/6

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**)

0/0.75 Throughout

2. Introduction/Background:

brief statement of scientific question

all variables defined

3. EDA:

univariate numerical

univariate graphical

bivariate numerical (cor)

bivariate graphical

(all pairs) matrix

4. Model fitting:

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

- SQUARE

- carefully and clearly interpret plots

0.75/2

you don't 'verify' assumptions

4.25/7.75

0.5/1

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

hat on response variable

max **2 sig digits** on coefs

1/1.25

7. Plots:

label size (not too small)

captions

placement

**NOT BLURRY**

0.25/1

8. Conclusions

recap analysis

- use paragraphs  
state main findings

Vague + generic  
→ be specific

1/1

9. Language quality:

poor

satisfactory

good

excellent

10. Other comments:

- why not try logs?

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2.75/4.25