

ETC1010

Sway

Lobby

Rooms

Quizzes

Reports

Edit Quiz

Save and Exit

Quiz name

Reading week 10 (DUE: Tues Oct 10, 9am)

1

MULTIPLE CHOICE

Edit

The log-transformation is particularly useful in model building because it can (choose all that apply)

Answer choices

- | | |
|----------|---|
| A | linearize the relationship between response and explanatory variables |
| B | spread the explanatory variable distribution out to make a more solid base for modelling the response |
| C | reverse the variable that has an exponential distribution |
| D | fix bimodality in the response variable |



2

MULTIPLE CHOICE

Edit

This model now includes four predictors, so it's getting harder to visualise. Fortunately, they're currently all independent which means that we can plot them _____ in four plots

Answer choices

- | | |
|---|------------------|
| A | together |
| B | individually |
| C | overlaid |
| D | with a model fit |

3

MULTIPLE CHOICE

Edit

It's often useful to look at _____ values individually:

Answer choices

- | | |
|---|-----------|
| A | fitted |
| B | predicted |
| C | residual |
| D | unusual |

4

TRUE/FALSE

Edit

If $\log(\text{price}) = a_0 + a_1 * \log(\text{carat})$, this says the relationship between price and carat is linear.

Answer

False

5

MULTIPLE CHOICE

Edit

Understanding the long-term trend in temporal data is challenging because there's often a very strong _____ effect that dominates the subtler patterns.

Answer choices

A	yearly
B	trend
C	day-of-week
D	monthly

6

TRUE/FALSE

Edit

One way to remove a strong pattern is to use a model, and then examine the residuals.

Answer

True

7

MULTIPLE CHOICE

Edit

When there seems to be some long term trend over the course of a year. We can highlight that trend by overlying a _____.

Answer choices

A	linear fit
B	smoother
C	boxplot
D	median

8

MULTIPLE CHOICE

Edit

Our model is finding the mean effect, but we have a lot of big outliers, so mean tends to be far away from the typical value. We can alleviate this problem by using a model that is robust to the effect of _____.

Answer choices

A	outliers
B	trend
C	residual deviation
D	nonlinearity

9

MULTIPLE CHOICE

Edit

If you're experimenting with many models and many visualisations, it's a good idea to bundle the creation of variables up into a _____ so there's no chance of accidentally applying a different transformation in different places.

Answer choices

A	model
B	fit
C	data frame
D	function

10

MULTIPLE CHOICE

Edit



When a simple linear trend isn't adequate, so we could try using a natural _____ to fit a smooth curve across the year

Answer choices

A	model
B	spline
C	transformation
D	function

[+ Multiple Choice](#)[+ True/False](#)[+ Short Answer](#)