

# Three sectors suggested

## Step 1: Descriptive analysis to understand variables

- Descriptive statistics such as mean, median, variation, correlation, contingency tables.
- Visualization using ggplot

1. Technical development 20';  
2. Application in real-life data 5'

## Step 2: Statistical testing to validate your hypothesis

- Design 2 different types of statistical testing, including all important components
- Clearly mention the testing purpose, choose the suitable test with reasoning
- Use R conduct statistical testing
- Draw conclusion based on your statistical testing results

1. Technical development 25';  
2. Application in real-life data 5'

## Step 3: Predict selling price

- Experimental design
- Prediction and validation
- How to improve prediction accuracy?

1. Technical development 25';  
2. Application in real-life data 5'

We allocate 70 marks to technical development (20'+25'+25')

Criteria1: Apply the statistical knowledge and interpret analysis results properly (10+6+6)

Criteria 2: R coding with well-structure and enough comments (10')

Criteria 3\*: Self-learning probability (+ additional 0-10' in total)

Min = 0', Max=16', 20% in (0-55) 60% in (56-65) 20% in (66-80)

We allocate 15 marks to real-life application (5'+5'+5')

Criteria 1: Understand real-life data correctly (2 for each)

Criteria 2: Link statistical analysis result to business problem properly (3 for each)

Min = 0', Max=3', 20% in (0-8) 60% in (9-12) 20% in (13-15)

# Indicative Storyline in PPT

Assume that you will present to business stakeholders. Your analysis is helping them understand the drivers and their impact on residential building sales price, and how to use analysis result to make their decision.

- Propose/assume a business problem statement
- High-level summary of your project including method, deliverables, business benefits and team capabilities, assumptions if any
- Your solutioning with results
- Your recommendations for your business stakeholder

Please remember to make it as a story  
Looking forward!

We allocate 15 marks to story telling and presentation skill (15')

Criteria1: Well define and articulate business challenge (5')

Criteria 2: Capture audience attention with the strong contents and various presentation formats such as figure, number, plot (5')

Criteria 3: Good story with connection & logic (5')

Min = 0', Max=3', 20% in (0-6) 60% in (7-12) 20% in (13-15)