**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_**

**Car Project: Selecting a Car**

This is the first of five assessment tasks in the topic of motoring maths. This piece will count towards your overall assessment for VCE Foundation Mathematics.

You are about to turn 18 and want to purchase your very first car. You have saved up $1000 already from working a part time job at the supermarket.

Find an advert for a car you would like to buy. This can be from a newspaper or online. Your car must cost between $2000 and $50,000.

a) Include a picture of your car and its cost in your report.

b) How much will you need to borrow from the bank to purchase this car?

You are required to neatly complete all five tasks either on a computer or by hand and hand them in to your teacher prior to the due date. Compile your work into a final report. In order to attain the highest mark you will need to present your work in the form of a word document.

**Marking Scheme**:

This piece is assessing Outcome 2: apply mathematical procedures to solve practical problems in both familiar and new contexts, and communicate their results.

|  |  |
| --- | --- |
| A level | C level plus, using excel, calculating the mean and the median price of all cars considered. Also calculating what percentage above or below the median price the selected car price was. |
| B level | C level plus calculating the mean and the median price of all cars considered and what percentage above or below the median price the selected car price was. |
| C level | D level plus a comparision table showing at least 5 cars in total. Comparison table will include information such as car make and model, price, link to car advertisement, and at least one other quality you're looking for (e.g., a column for a tick or a cross relating to air conditioning). Clear description of whiy this option was chosen over alternate options, discussing pros and cons. |
| D level | E level plus includes a picture of car and explanation of why this car was chosen over an alternate option. |
| E level | Communicates make and model of selected car, price, and how much needs to be borrowed from bank. Includes short sentence about why this car was selected. |

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