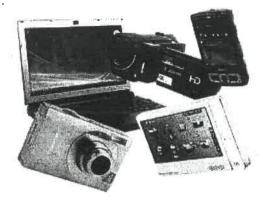
Introduction:



Investigate different payment schemes for buying/selling a new device.

You will be assessed on the quality of your reasoning and how well you link the relevant concepts and representations to your context.

Show all relevant working and diagrams. Use appropriate mathematical statements to communicate your findings.

Task:

In choosing your payment methods, using sequences and series, ensure that they demonstrate the following:

| Evidence for Achievement | Evidence for Merit | Evidence for Excellence |
|--|---|--|
| Apply sequences and series in solving problems: Select and use at least 2 methods from: The general term of a sequence A partial sum of a sequence The sum to infinity of a geometric series Finding the value of the first term, common difference or common ratio of a sequence Finding the number of terms in a sequence Demonstrate knowledge of concepts and terms Communicate using appropriate representations skills Basic communication | Apply sequences and series, using relational thinking, in solving problems will involve ONE or more of: Selecting and carrying out a logical sequence of steps Connecting different concepts or representations Demonstrating understanding of concepts Forming and using a model AND communicate thinking by clearly indicating what calculations are for and relating findings to a context, using appropriate mathematical statements Answers question Interprets solution in context | Apply sequences and series, using extended abstract thinking, in solving problems will involve ONE or more of: Devising a strategy to investigate a situation Identifying relevant concepts in context Developing a chain of logical reasoning, or proof Forming a generalisation AND communicate by also using correct mathematical statements, or communicating mathematical insight. Investigates further around the original context/problem for a relevant purpose Interprets solution in context Clear communication |

Wellington High School Te Kura Tuarua o Taraika ki Pukeahu **Mathematics Department Authenticity Statement**



attest that the work I am submitting is my own and not the work of

others.

I understand if I am found to have impersonated or submitted material that is not my own work, including failure to establish authenticity, then my grade with be NOT ACHIEVED. I will lose the credits and the breach will be reported to the Principal's nominee who will notify my parents/ whānau.

| Signed: | (student) | Date: 14 /5/19 |
|--|---|---|
| Outline of task I want to buy I rooked into a particular computer. Option A) pay \$450 & First month asspay the | options of | for myself payment for for the |
| Arsi month ass pay the option B) pay \$500 us Arsi monda 3% ass - pa | phront then yhen every phront then yhen every phront then yhen every yhis por | month after \$2 months (zyeas) \$50 for the month after after 7 month after 24 months (z year |
| How much will each scheme (a & B) | l be | paying for |
| for the Rul 24 mas | Teacher sign off: _ | azing ownall/tota |
| a which i poten should | choose? | |