



Crystal Mountain

Maths Assessment 1A- Cost of Crystals

Pounamu and other natural stones are some of the treasures of Aotearoa.

In this assessment you will be using your Numeracy and Literacy skills to calculate the costs of jewelries and ornaments made from crystals.

This is individual work. This is part 1 of the assessment. Part 2 is a Test.

Write your answer with **full working** on a google doc.

Please submit a pdf copy to MHO by April 2nd.



Task: Use this costing list of crystals from Crystal Mountain site to carry out the following calculations.

https://www.crystalmountain.co.nz/shop/Crystals+and+Minerals/x_cat/00317.html

1. Ruku bought the following crystals: 4 pieces of Tumbled Aventurine and 5 pieces of Tumbled Amethyst. Each piece costs \$2.00.
What is her total cost?
2. You need to calculate the cost of your own ornament. It can be either a bracelet or a necklace. You must use at least 3 different colours and 7 pieces.
 - a). Draw your ornament
 - b) Use this link to choose your crystals and calculate the total cost.

https://www.crystalmountain.co.nz/shop/Crystals+and+Minerals/x_cat/00317.html

3. Your maths teacher decides to take his family to Crystal Mountain park for a day out. There are two adults and two children aged 11 and 13 years.
She will buy *Ultimate Experience Passes - All day rides as per timetable for the kids, Park Visitor Passes for adults, two Museum Adult passes and three Bags of Animal Food*. Use this link to help you to answer the questions below.

<https://www.crystallmountain.co.nz/FAQS/Opening+Hours+and+Pricing.html>

- a) Calculate the total cost for a day out at Crystal Mountain.
- b) Teacher gets a discount of 15%. How much is the discounted cost?

TAAB

Criteria	WORKING TOWARDS	Working AT curriculum expectation	Working ABOVE curriculum expectations	Working BEYOND curriculum expectation
Number operation in context	You have attempted to apply: <ul style="list-style-type: none"> • multiplicative strategies flexibly to whole numbers, ratios, and equivalent fractions, decimals and percentages • multiplication and division as inverse operations on whole numbers • additive strategies flexibly to decimals and integers 	You have applied number operations: <ul style="list-style-type: none"> • multiplicative strategies flexibly to whole numbers, and equivalent fractions, decimals and percentages • multiplication and division as inverse operations on whole numbers • additive strategies flexibly to decimals and integers 	You have applied number operations in multiple steps with: <ul style="list-style-type: none"> • multiplicative strategies flexibly to whole numbers, equivalent fractions, decimals and percentages • multiplication and division as inverse operations on whole numbers • additive strategies flexibly to decimals, integers and used order of operation 	You have applied number operations in multiple steps precisely with: <ul style="list-style-type: none"> • multiplicative strategies flexibly to whole numbers, equivalent fractions, decimals and percentages • multiplication and division as inverse operations on whole numbers • additive strategies flexibly to decimals, integers and used order of operation
Number Knowledge in context	You have attempted to explain the strategies using steps	You have explained the strategies using steps	You have explained the strategies using multiple steps	You have explained the strategies using multiple steps with justification
Science				
Time management	You have not submitted the	You have not submitted the assessment on	You have submitted the	You have submitted the

	assessment	time	assessment on time	assessment on time
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