

Name:

**Foundation Mathematics Year 11**

**Practical Application 1**

**Weighting 10% of the Unit**

** Score: /**30 marks

**Money Matters**

The school needs a new swimming pool. The student council: Allan, Hayden, Michael, Martika, and Hannah, decide to use the school ball as a fundraiser to cover the costs of purchasing a new pool.

**1 Where should the School Ball be held? (10 marks)**

Martika investigated possible locations and found the following:

|  |  |  |  |
| --- | --- | --- | --- |
| **Location** | **Cost of the room per evening** | **Maximum number of people** | **Cost per person at full capacity** |
| Golf Club Function Room | $200 | 100 |  |
| Race Course Function Centre | $500 | 200 |  |
| Wedding Reception Dining Room | $400 | 250 |  |
| Exclusive Hotel Ballroom | $750 | 500 |  |
| School Gymnasium | $50 | 150 |  |

1. What is the cost per person of hiring each of these rooms for a night when the room contains the maximum number of people? Record your answers in the above table.
2. Martika anticipates **200** people will attend.
   1. Which of the locations would be suitable for the Ball?
   2. Which of the suitable locations has the cheapest cost per person?
   3. What things other than cost, should Martika put towards the student council when choosing the best location for the Ball?

**2 Choosing the menu (5 marks)**

There are two Menu options for the school ball, they are shown below:

|  |  |
| --- | --- |
| Menu Option 1 | Menu Option 2 |
| Entrée - Seafood cocktail  Main Meal – Fish of the Day  Desert – Pavlova  Coffee and after dinner mints | Entrée - Pumpkin Soup  Main Meal – Beef in Red Wine  Desert – Fresh Fruit Salad  Coffee and after dinner mints |
| Price per person $18.20 | Price per person $18.30 |
| Drinks: 18 dozen bottles of Soda at $2.10ea | Drinks: 18 dozen bottles of Soda at $1.95ea |

Calculate the total cost for each menu for 200 people. Which menu is the most affordable option?

**3 The Music (2 marks)**

One of Hayden’s friends is a member of a band. His group offered to play for the School Ball at a discounted price of $35 per hour.

What will be the cost of the music for 3 ½ hours?

**4 The Tickets (5 marks)**

When Allan visited the printer shop to order the tickets for the ball he was told they would have to pay $25 for the art work and $40 per hundred to have the tickets printed.

1. What will be the total cost to have 200 tickets printed?
2. Taking in consideration of all the costs so far, How much should the student council charge for tickets to the School Ball? Explain how you came to this amount.

**5 The Raffle (3 marks)**

Michael asked his Uncle who is the Manager of Ninja Motorcylces and Kimki Scooters if he could help out by donating a brand new scooter as a Raffle prize. Michael’s Uncle agreed as he had a late model scooter that had not sold yet. During the Ball the raffle tickets were sold for $1 each or 3 for $2.

Sixty $1 tickets were sold and 360 tickets were sold at 3 for $2.

How much money was raised from the sale of raffle tickets?

**6 Did the Ball make enough profit? (5 marks)**

How much profit did the School Ball make including the money raised from the Scooter Raffle?

Research a suitable Pool for the school. How much would a pool cost?

Was enough money raised to buy the Pool? Show your working.

****