

# 868



# TUTORS

*Preparation for*

## High School Mathematics

## Consumer Arithmetic

Math



### Instructions and Tips:

- ✓ **You have 90 minutes to complete this worksheet**
- ✓ **This worksheet consists of 8 questions**
- ✓ **Write answers in the spaces provided**
- ✓ **All working must be clearly shown**
- ✓ **Answers should be given to 2 decimal places**



Student Name: \_\_\_\_\_

Student ID: \_\_\_\_\_

Date: \_\_ / \_\_ / \_\_\_\_

**Total Score:**

**Highest Score:**

**Tutor's Comments:**

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**Question 1**

**Chukwuemeka arrives in Trinidad and Tobago on vacation. He has 50,000 Nigerian Naira (NGN). He changes the 50,000 NGN at a local bank to Trinidad and Tobago Dollars (TTD).**

**1 TTD = 30.20 NGN**

**(a) How much TTD does Chukwuemeka receive?**



**(2 marks)**

**During his stay in Trinidad and Tobago, Chukwuemeka spends 600 TTD. He then travels to Barbados. He converts the remainder of his TTD to Barbados Dollars (BDS).**

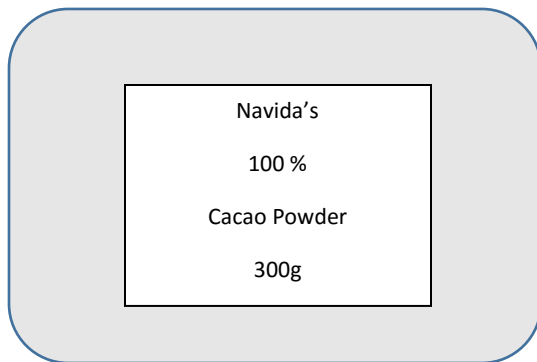
**1 BDS = 3.22 TTD**

**(b) How much BDS does Chukwuemeka receive?**

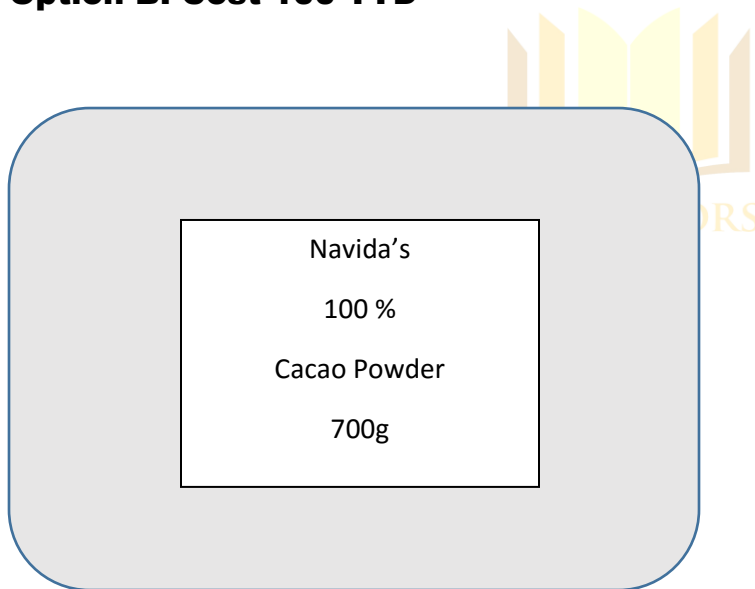
**(2 marks)**

**Question 2**

**Option A: Cost 50 TTD**



**Option B: Cost 100 TTD**



**At a local grocery store you observe that there are two sizes of cacao powder packs. Both are of the identical brand and identical quality. Calculate the cost per gram for:**

**(a) Option A**

**(2 marks)**

**(b) Option B**

**(2 marks)**

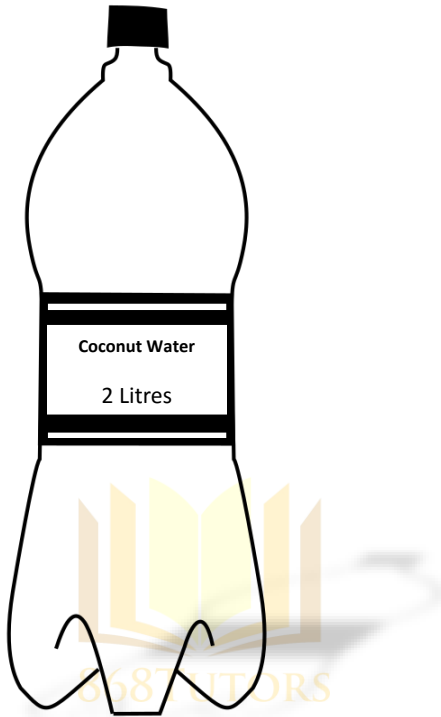
**(c) Based on your calculations, recommend which option is more cost effective given that you purchase cacao powder regularly and that you have the cash to purchase either option.**

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**(1 mark)**

**Question 3**

**At a supermarket in Belize, a 2 Litre bottle of Coconut water can be purchased for 1.50 Belize Dollars (BZD).**



**1 BZD = 1.35 XCD**

**(a) Calculate how much Eastern Caribbean Dollars (XCD) will be needed to purchase this Coconut water in Belize.**

**(1 mark)**

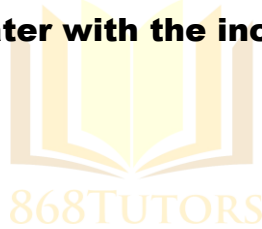
**1 BZD = 0.50 USD**

**(b) Calculate the cost per litre of Coconut water in USD.**

**(2 marks)**

**1 USD = 6.51 TTD**

**(c) A businessman in Trinidad and Tobago plans to sell the 2 litre bottle of Coconut water with a 30% markup. Calculate the cost in TTD for a bottle of this Coconut water with the included markup.**



**(3 marks)**

**(d) At the point of sale in Trinidad and Tobago, Value Added Tax (VAT) of 12.5% will be added. Calculate the cost in TTD for a 2 litre bottle of this Coconut water, inclusive of the markup and VAT.**

**(4 marks)**

**Question 4**

**A sports store in Jamaica sells a bicycle for 18,000 Jamaican Dollars (JMD)**



**(a) At Christmas time, the customer is given a 20% discount. Calculate the cost of the bicycle at this time.**

**(2 marks)**

**(b) For every bicycle, the store sells during Christmas time, a profit of 4,500 JMD is made. If the store sells 150 bicycles, what is the store's overall profit from this bicycle?**

**(2 marks)**

**1 TTD = 18.77 JMD**

**(c) Calculate the store's profit from the sale of this bicycle in TTD.**

**(2 marks)**

**Question 5**



**Mr. Kalesanwo decides to open a Nigerian restaurant in Trinidad. At a grocery store, he notices two options for purchasing Cassava Flour. Both options are of the same brand and quality. The prices are quoted in Trinidad and Tobago Dollars (TTD).**

**(a) Calculate the cost of purchasing 30 kg of Cassava Flour using 2 kg packs (in TTD).**

**(2 marks)**



**(b) Calculate the cost of purchasing 30 kg of Cassava Flour using 10 kg packs.**

**(2 marks)**

**1 TTD = 30.20 NGN**

**(c) Calculate the cost of the cheaper option for 30 kg of Cassava Flour in Nigerian Naira (NGN).**



**(3 marks)**

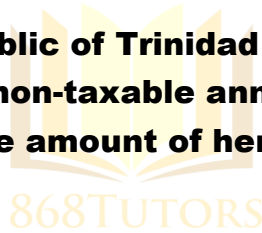
**Question 6**

**A young Electrical Engineer is hired in the oil and gas industry in Trinidad and Tobago. Her monthly salary consists of a base pay of 15,000 TTD. In addition, every time she is called off shore, she will be paid an additional 2,000 TTD.**

**(a) Calculate her annual salary if she is called offshore 15 times for the year (in TTD).**

**(2 marks)**

**(b) As a citizen of The Republic of Trinidad and Tobago, the young engineer is entitled to a non-taxable annual personal allowance of 72,000 TTD. Calculate the amount of her annual salary that will be taxed (in TTD).**



**(2 marks)**

**(c) The income tax rate is 25%. Calculate, the amount of money that she takes home annually (in TTD), after being taxed.**

**(2 marks)**

**Question 7**

**Mr and Mrs. Yang visit Tobago and are awestruck with the beauty of the island. They decide to purchase an acre of beach front land. The cost is 500 TTD per square foot.**

**1 Acre=43,560 square feet.**

**(a) Calculate the cost in TTD of one acre of the beach front land.**

**(2 marks)**

**(b) Stamp duty will be charged at a rate of 2% of the cost of the land. Calculate the amount that Mr. and Mrs. Yang will have to pay in Stamp duty.**



**(2 marks)**

**1 USD=6.51 TTD**

**(c) Calculate the total amount of money that Mr. and Mrs. Yang will spend in USD.**

**(2 marks)**

**Question 8**

**(a) The table below shows Adrian's shopping bill for his Convenience Store. Some information was not included.**

<b>Items</b>	<b>Quantity</b>	<b>Unit Price (TTD)</b>	<b>Total Cost (TTD)</b>
<b>Flash drives</b>	<b>15</b>	<b>20.00</b>	<b>A</b>
<b>Mobile phones</b>	<b>40</b>	<b>B</b>	<b>12,000</b>
<b>Cranberry flavoured Water</b>	<b>C litres</b>	<b>4.35</b>	<b>435</b>
<b>Sub-Total</b>			<b>12,735</b>
<b>12.5% VAT (to the nearest cent)</b>			<b>D</b>

**Calculate the values of A, B, C, and D**

**(5 marks)**

**(b) VAT was increased from 12.5% to 20%. Calculate the increase in Adrian's bill.**



**(2 marks)**



**END OF WORKSHEET**

