



Republic of the Philippines
Department of Education
National Capital Region
DIVISION OF CITY SCHOOLS
Quezon City, Metro Manila



August 4, 2011

MEMORANDUM TO:

Asst. Schools Division Superintendents
Division / District Supervisors
Secondary School Principals
Head Teachers and Teachers In-Charge

1. Attached herewith is DepEd-NCR Regional Letter No. 220, s. 2011, from Dr. Elena R. Ruiz, Schools Division Superintendent, Officer In-Charge, Office of the Regional Director, re: Inviting participation of secondary schools to the "Statistical Challenge XIV", on February 4, 2012, the contents of which are self-explanatory, for the information and guidance of all concerned.
2. Immediate and wide dissemination of this Memorandum is desired.

CORAZON C. RUBIO, CESO VI
Schools Division Superintendent

Incl.:

As stated



Republika ng Pilipinas
(Republic of the Philippines)
KAGAWARAN NG EDUKASYON
(DEPARTMENT OF EDUCATION)
PAMBANSANG PUNONG REHIYON
(NATIONAL CAPITAL REGION)
Daang Misamis, Bago Bantay, Lungsod Quezon
(Misamis St., Bago Bantay, Quezon City)

Department of Education
National Capital Region

RECORDS UNIT

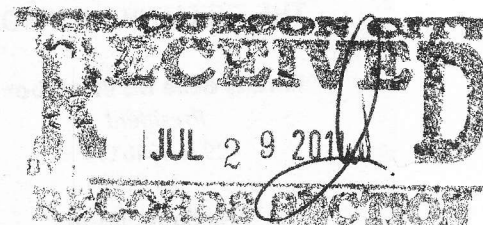
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By: 7/21/11 Time: 11:00

July 21, 2011

To: Schools Division Superintendents

Dear Sir/ Madam:



Attached is a letter dated July 12, 2011 of Ms. Khristy Belle M. Villalobos, President, University of the Philippines Variates, inviting participation of secondary schools to the "Statistical Challenge XIV" on February 4, 2012, the contents of which are self-explanatory for information and guidance of all concerned.

Immediate and wide dissemination of this Regional Letter is desired.

Very truly yours,

ELENA R. RUIZ
Schools Division Superintendent
Officer-In-Charge
Office of the Regional Director

Regional Letter No. 220
F7/f13

university of the philippines variates

THE ORGANIZATION OF STATISTICS MAJORS

School of Statistics, R. Magsaysay St., University of the Philippines, Diliman, Quezon City



"We turn impossibilities
into probabilities."

THE EXECUTIVE BOARD

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E-mail us at
up_variates@yahoo.com

July 12, 2011
Eleng R. Cruz
Office of the Regional Director

Dear Sir/Madam:

Greetings!

The University of the Philippines Variates is a socio-academic organization in UP Diliman. We cater to the students of the School of Statistics. The main goal of our organization is to provide venues that will hone its members' talents and develop their personalities. Briefly, it aims to shape our members into well-rounded individuals geared to face the challenges of the future.

In line with this, we would like to request for the endorsement of one of our organization's activities - the **Statistical Challenge XIV**.

The **Statistical Challenge XIV** is a nationwide inter-secondary statistical quiz show which aims to promote Statistics and to expand the knowledge of high school students in the said subject. The quiz show is now on its 14th year, and it will be held in the University of the Philippines Diliman, Quezon City, on **February 4, 2012**.

Your endorsement will greatly improve the reception of prospective participating schools, as evident during the previous years of endorsement. Attached herewith is a copy of the event's mechanics.

We will be looking forward to your favorable response in this matter.

Thank you.

Respectfully yours,

Kevin Jonathan K. Dy

Chairperson

Academic Resource Committee

Khristy Belle M. Villalobos
President

Noted by:

Mr. Kevin Carl P. Santos
Faculty Adviser

DEPED-NCR
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BY: Jul 12 2011
DATE: 12 2011

THE STATISTICAL CHALLENGE XIV

RULES OF THE CONTEST

1. Each school will be required to bring at least 1 calculator. Only the following models of **CASIO** calculators will be allowed in the contest: **fx-82MS, fx-85MS, fx-350MS, fx-95MS, fx-100MS, fx-115MS**. These calculators are 2-liner with **no integral and derivative** functions.
2. Each school will be provided with **scratch papers** and an **illustration board** where participants should write their final answers.
3. Each question shall be read twice and the participants shall be allowed to **start writing and computing only after the first reading**.
4. The participants shall be given **specific time limits** to answer the question in the **Easy, Average, and Difficult Rounds**. They shall be **allowed to use calculators** for their computations.
5. When the buzzer sounds, each group must show the board containing their **final answers** to the judges and the audience.
6. The designated proctor for each school shall check the answer, and **shall raise a flag if the answer is correct**.

THE CONTEST

This contest is composed of **three (3) rounds**: the **Easy, Average, and Difficult Rounds**.

• EASY ROUND

- ❖ **Fifteen (15) questions** are to be asked. The time limit for each question depends on the question's level of difficulty. Each correct answer shall be worth **two (2) points**.

• AVERAGE ROUND

- ❖ There are **ten (10) questions**. The time limit for each question depends upon the question's level of difficulty. Each correct answer shall be worth **three (3) points**.

• DIFFICULT ROUND

- ❖ There are **seven (7) questions**. The time limit for each question depends on the question's level of difficulty. Each correct answer shall be worth **five (5) points**.
- There will be **no elimination** for this year's contest.
- Points in each round will be accumulated for the final score.
- In case of a tie, **clinch questions** shall be asked.

PARTICIPANTS

The group of the participating secondary school shall consist of **three (3) students of at least third year standing**. Participating students should be enrolled for the current school year.

PRIZES

- 1st prize winners shall be awarded gold medals, a trophy for their school and cash prizes.
- 2nd prize winners shall be awarded silver medals, a trophy for their school and cash prizes.
- 3rd prize winners shall be awarded bronze medals, a trophy for their school and cash prizes.

COVERAGE OF THE QUIZ

1. Nature of Statistics
 - 1.1 Definition of Statistics
 - 1.2 Areas of Statistics
 - 1.3 Uses of Statistics

2. Organization and Presentation

- 2.1 Tabular Presentation
- 2.2 Graphical Presentation

3. Sampling Techniques

- 3.1 Simple Random Sampling
- 3.2 Stratified Sampling
- 3.3 Cluster Sampling
- 3.4 Systematic Sampling

4. Summary Measures

- 4.1 Measures of Central Tendency (Mean, Median, Mode)
- 4.2 Measures of Position (Deciles, Percentiles, Quartiles)
- 4.3 Measures of Dispersion (Coefficient of Variation, Variance, Range)
- 4.4 Standard Scores
- 4.5 Skewness and Kurtosis

5. Counting Techniques

- 5.1 Fundamental Principles of Counting
- 5.2 Permutation
- 5.3 Combination

6. Elementary Probability

- 6.1 Random Experiments and Sample Spaces
- 6.2 Probability of an Event

7. Correlations and Regressions

- 7.1 Pearson's Correlation Coefficient
- 7.2 Simple Linear Regression

8. Hypothesis Testing

- 8.1 Principles of Hypothesis Testing
- 8.2 Inferences for the Population Mean
- 8.3 Comparisons between Two Populations
- 8.4 Test for Independence
- 8.5 Analysis of Variance

9. Philippine Statistical System

LIST OF STATISTICAL CHALLENGE XIII PARTICIPANTS

1. Arellano University Jose Rizal High School
2. Bagumbayan National High School
3. Bansud National High School
4. Caloocan City Science High School
5. Cavite National High School
6. Chiang Kai Shek College
7. Colegio San Agustin Binan
8. College of the Holy Spirit of Manila
9. De La Salle Araneta University Malabon
10. Holy Angel University
11. Hope Christian High School
12. Jose J. Leido Jr. Memorial National High School
13. La Immaculada Concepcion School
14. La Purisima Concepcion Academy of Malabon, Inc.
15. Makati Science HS
16. Manila Science High School
17. Mariaduque Academy START
18. Pinagbuhatan High School

19. PUP Laboratory High School
20. Quezon National High School
21. Rizal Technological University - Laboratory High School
22. Rogationist College
23. Saint Joseph School of Fairview, Inc.
24. Saint Paul College of Makati
25. Saint Pedro Poveda College
26. St. Jude Catholic School
27. St. Rose of Lima Montessori School
28. St. Stephen's High School
29. Taguig Science High School
30. University of Regina Carmeli
31. UP Rural High School
32. Westfield Science-Oriented School and Colleges

HIGHLY RECOMMENDED REFERENCES:

- Elementary Statistics (2010). Almeda, Capistrano and Sarte.
- Introduction to Statistics (3rd Edition). Walpole.
- Introduction to Statistics and Probability. Mendenhall.

SOME MORE IMPORTANT REMINDERS:

1. Participants should come in their **school uniform**.
2. A **registration fee of Php 500** is required from each participating school, which should be remitted during the registration period. The said registration fee is inclusive of the snacks and lunch of the three student participants and of the coach. Should the school send more than four people, an additional fee of Php 100 per person would be requested to cover for their snacks and lunch.
3. Registration period is until **December 16, 2011**.
4. Each contestant is required to submit the following:
 - a. **One 1x1 recent ID picture**
 - b. **Photocopy of school registration material** or letter of enrollment attesting that the contestant is enrolled for **School Year 2011-2012**.
5. Submit the reply form and the three accomplished registration forms with the rest of the requirements on or before December 16, 2011. You can drop off the forms at the **UP Variates tambayan – R. Magsaysay St., School of Statistics, University of the Philippines, Diliman, Quezon City**. We also accept mailed entries. Please forward them to **Mr. Kevin Carl P. Santos** at the same address. Receipts of payment for the registration fee shall be issued.

The Statistical Challenge Series is fully-endorsed by the Department of Education.
The Quiz Show has been successfully realized for the past 13 years.
The UP VARIATES is still honing students in the field of Statistics.

REPLY FORM

Date: _____

To the UP Variates,

☐

Yes, we are interested in joining the "STAT CHALLENGE." Attached herewith are the registration forms and other requirements.

☐

No, thank you. Perhaps in your next quiz show.

Signature over printed name of School Representative

Name of School: _____

Address: _____

Contact Person: _____

Contact Person's Position: _____

Contact Number: _____

Fax Number: _____

E-mail Address: _____