September 6, 2019

DIVISION MEMORANDUM
No. ___257___ s. 2019

11ᵗʰ DIVISION MATHEMATICS FESTIVAL

To: Chief, Curriculum Implementation Division
       Chief, Schools Governance & Operation Division
       Education Program Supervisors
       Public Schools District Supervisors
       Elementary ?Secondary School Principals/ School Heads
       Private Elementary & Secondary Schools
       This Division

DEP-ED. S.C. DIV.
RELEASED
DATE: 0 6 SEP 2019
BY: _____ 2:15PM

1. This division will hold the 11ᵗʰ DIVISION MATH FESTIVAL on October 4, 2019 at 8:00 A.M. at Surigao West Central Elementary School, Surigao City. This is an organized series of mathematics related events to enhance the skills and talents of the pupils/students in the field of Mathematics. This year's theme is "Mathematics Education: Avenue to Creating Global Problem Solvers and Critical Thinkers".

2. The FESTIVAL aims the following:
   a. improve pupils/students analysis, problem solving and critical thinking skills;
   b. develop the ability of pupils/students to understand and to find solutions to her/his own problem;
   c. develop teamwork and wholesome competition.

3. The 11ᵗʰ DIVISION MATH FESTIVAL will be highlighted by the following events with the corresponding participants per district/ per private school.

EVENTS	ELEMENTARY	SECONDARY
Math Quiz - Written	Grade 4 – 6 (1 per Grade level)	Grade 7 – 10 (1 per Grade level)
Math Quiz Bowl (Team)	Grade 4 – 6 (1 per Grade level – as team)	Grade 7 – 10 (1 per Grade level- as team)
Rubiks Cube	Grade 4 – 6 (1 per Grade level)	Grade 7 – 10 (1 per Grade level)
Damath	Grade 6 – (Whole Numbers)	Any Grade level (Integers) (1 entry only)
Su Duko	Grade 4 – 6 (1 per Grade level)	Grade 7 – 10 (1 per Grade level)

4. The participants/contestants of this activity are the District winners and school winners of the private schools. List of contestants should be submitted to this office a week before the contest for the preparation of the contest materials. All contestants should submit their parents' consent to this office. Pupils/students without such are not allowed to join the contest.

5. To ensure a smooth conduct of the activity, there will be a pre –conference with all the Event Managers (see Attached list) on September 27, 2018 at 2:00 PM, 3ʳᵈ Floor, Function Hall, Division Office, Surigao City.

6. Attached are the List of Event Managers and Facilitators and Contest Mechanics of the five events.

7. Immediate dissemination of this Memorandum is hereby enjoined.

for:
FLORENCE E. ALMADEN, CESE
OIC, Schools Division Superintendent

Allotment: 3 & 4
Enclosure: List of Events Managers and contest Mechanics

To be indicated in the Perpetual Index under the following subjects:

MATHEMATICS   FESTIVAL   COMPETITION

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11th DIVISION MATHEMATICS FESTIVAL

EVENT MANAGERS, FACILITATORS AND WORKING COMMITTEES

EVENT	EVENT MANAGERS		FACILITATORS			
	Elementary	Secondary	Elementary	Grade	Secondary	Grade
Math Quiz	Rufina M. Creencia	Marnelli Esmenda	Perla E. Geraldino Lorraine E. Chato	4	Lenaida G. Generan Ariel Calvara	7
			Maricar T. Lisondra Gloria Y. Paular	5	Flordeliz F. Javillonar Eddie Anajao	8
			Lina M. Lisondra Rowena A. Cortes	6	Frederick L. Lapiz Ma. Derly O. Cabarrubias	9
					Edwin E. Gibertas Liza A. Predog	10
Damath	Elmer L. Bonilla	Maria Menoza/ Rolando Menoza	Elizabeth B. Quiday	Elem	Danilo Juntilo	Sec
			Zosimo H. Lopez, Jr		Geovanni Dela G. Cruz	
			Cornelius P. Sajulga		Rogelio B. Dangate	
			Jocyline O. Reyna		Ronald E. Riveral	
Sudoku	Jimmyl Ann Asis	Soledad A. Generalao	Diolita C. Plandano	4	Elba Mesias	7
			Emie Pepino		Sylvia A. Torrecampo	
			Rowena E. Jabonero	5	Girlie B. Gipala	8
			Juris J. Erno		Fe E. Rubio	
			Restan Mae T. Gimeno	6	Norlyn G. Palima	9
			Chona B. Armada		Amada G. Bausing	
					Nimfa Grace T. Bolandrina	10
					Jesel D. Gorgod	
Rubik's Cube	Florencio Dionaldo	Jose Romuelle Fazon	Elizabeth Manliguis	Elem	Lalo T. Lisondra	Sec
			Engelbert M. Predog		Tessie Arellano	
			Sherallene T. Roldan		Rey Ascaris	
			Andrew Dagaas		Leland Lisondra	
			April Rose Arana		Azucena C. Magallanes	
					Mary Jane Besinio	

Quiz Bowl	Quiz Master	Judge	Time Keeper / Recorder	Proctor	Tabulator
Elem	Dr. Trinidad T. Pulvera	Geniviv T. Calubag	Alvin Babas	Janette G. Tupal	Nelia A. Alaman
Sec	Joseph Melbert Rebot	Carlito L. Biol, Jr.	Pamela Templado	Marlina G. Rasonabe	Alicia P. Adlao

Level	Consolidator	Chairman
Elementary	Freddie E. Confesor	Lucelle A. Quezada
Junior High School	Gemma C. Orozco	Myrna H. Conol

Documenter: Karl John C. Feril

QATAME: Anajin Manuag

Layout Artist: Elpedio A. Cambaya, Jr.

Food Chair: Lucille L. Viajar

Stage Decoration and Contest Rooms: Dailita P. Sulima and Surigao West Central ES Teachers

Republic of the Philippines
Department of Education
CARAGA Administrative Region
SCHOOLS DIVISION OF SURIGAO CITY
Ortiz St., Brgy. Washington, Surigao City
Tel. No. 826-8931

2019 DIVISION MATHEMATICS FESTIVAL
October 4, 2019

MATH QUIZ – Individual

1. Each participating district / private school should have only 1 contestant per Grade Level (Grades 4, 5 & 6) / (Grades 7, 8, 9 & 10). The contestant should be a bona-fide pupil/student enrolled in the current school year.

2. All contestants will answer the same set of test materials in writing.

3. Each question weighs 1 point.

4. Contestants are not allowed to bring cellphone, ipad, camera, calculator inside the testing room.

5. Contestants shall solve the problems on the yellow papers provided by the proctors.

6. Contestants shall write **ONLY their NUMBER** on the **TEST MATERIAL** based on the Registration Form. They should not indicate the school and the district in the test material.

7. **ONLY the FINAL ANSWER** must be written on the space provider for in the test paper.

8. The written test will last for **30 minutes only. NO extension of the time.**

9. Proctors will immediately check the test materials and must be verified by the teacher – coach.

10. Key Answers must be opened only during the checking time.

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QUIZ BOWL

1. Each participating district/private school should have only 1 team composed of three (3) members, one contestant per Grade Level (Grades 4, 5 & 6) for the elementary level and four (4) members in a team, one per Grade 7, 8, 9 & 10 for the secondary level. The contestant should be a bona fide pupil/student enrolled in the current school year.

2. Each team will be provided with **BOND PAPERS** for the answer to each question. Team Number must be written on the **UPPER LEFT SIDE** of the bond paper to indicate Team's Number.

3. There shall be 5 twenty – second questions with 1 point each, 5 thirty – second questions worth 2 points each and 5 one-minute questions worth 3 points each for a total of 30 points.
   a. The EASY Round or the 20-second questions are to be answered mentally. There will be no writing anywhere. The team will work together as one to discuss their answer to the question. Then, they write their answer on the bond paper.
   b. For AVERAGE Round or the 30-second questions, the contestants may begin solving in the bond paper as soon as they wish and **ENCIRCLE their FINAL answer**.
   c. For DIFFICULT Round or the one-minute questions, the team will start solving the problem after the first reading in the bond paper and **ENCIRCLE the FINAL answer.**

4. The quizmaster will read each question twice; after which he/she gives the **GO** signal. The timer starts when the quizmaster gives the **GO** signal.

5. Answers must be given complete with units and to the required accuracy. However, if the unit is already given in the question, it needs not be given in the answer.

6. The proctors will read the answer of each team.

7. The teams will be ranked according to their total score in the three parts to determine the winners.

8. In case of tie, for the first three places, a set of three questions will be asked to break the tie.

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RUBIK'S CUBE

1. Each participating district/private school should have only 1 contestant per Grade Level (Grades 4, 5 & 6) / (Grades 7, 8, 9 & 10). The contestant should be a bona fide pupil/student enrolled in the current school year.
2. It is a *"race to three"* competition. Each contestant will solve 3 Rubik's cube continuously.
3. Each contestant will provide his/her own Rubik's cube during the contest proper.
4. There will be three elimination rounds for every Grade level:

Round 1 – Race to Three. The contestants will be divided into three (3) groups. (depending the number of contestants)

Game 1 : (group1)
Game 2 : (group2)
Game 3 : (group3)

* The time of each contestant will be recorded. All the contestants will be ranked according to the least time consumed. The top 6 can proceed to Round 2

Round 2 – Race to Three. The top six (6) contestants will be divided into two (2) groups.

Game 1 : Three contestants (group1)
Game 2 : Three contestants (group2)

* The time of each contestant will be recorded. All the contestants will be ranked according to the least time consumed. The top three (3) can proceed to Round 3

Round 3 – Race to Three. The contestants will be ranked according to the least time consumed in the Rubik's puzzle. The contestants will be declared as first, second or third place winner.

5. The time keeper shall check the stop watch for every contestant.
6. The time starts immediately after the contest administrator announces the **GO** signal.
7. The time keeper shall only press STOP on the watch after the puzzle has been solved and places down the Rubik's cube on top of the table. The contestant is no longer allowed to continue if he/she happened to place down the Rubik's cube before the puzzle was solved.
8. The Rubik's cube puzzle is said to be SOLVED after putting it back in proper order, each face will have only one color.
9. Winners will be determined through the consumed time in the Rubik's cube puzzle. Any contestant who have the least time in the solving the puzzle will be declared winner.
10. The decision of the contest administrator will be official and final.

2019 DIVISION MATHEMATICS FESTIVAL
October 4, 2019

SUDOKU

1. Each participating District / private school should have only one contestant for every Grade level (Grades 4, 5 & 6) / (Grades 7 – 10). The participant shall be bona fide pupil/student enrolled in the current school year.
2. There will be three elimination rounds:

   Round 1 –   EASY ROUND (10 minutes)
   Each contestant will solve only one Su DoKu Easy Level
   Only the top 7 contestants can proceed to Round 2

   Round 2 –   AVERAGE ROUND (15 minutes)
   The top 7 contestants will solve only one Su DoKu Average Level
   Only the top 5 contestants can proceed to Round 3

   Round 3 –   DIFFICULT ROUND (30 minutes)
   The top 5 contestants will solve only one Su DoKu Difficult Level
   Each contestant will be ranked according to the time consumed in the puzzle and the number of correct responses.

3. The Su DoKu grid will be provided during the contest proper.
4. The time starts immediately after the contest administrator announces the **GO** signal.
5. The contestants shall immediately submit their solved SuDoKu and the contest administrator will record the time consumed for each contestant.
6. The SuDoKu puzzle is said to be solved after filling all the sub grids, each with the numbers 1 to 9 in proper arrangements. Each row and column contains the numbers 1 to 9.
7. Numbers written whether in pencil or ballpen and in whatever sizes shall be deemed final and constitutes an answer of the puzzle grids.
8. Winners will be determined through the consumed time in the SuDoKu puzzle. Any contestant who have consumed least time in the puzzle will be declared winner.
9. The decision of the contest administrator is official and final.

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DAMATH - Elementary

Any from Grades 5 & 6   -   Whole Numbers

1. Set the starting positions of the chips.
2. After the starting positions of the chips have been set, the first player is determined by drawing lots.
3. A chip is allowed to move diagonally forward only to an adjoining vacant square.
4. A chip has to take the opponent's chip diagonally forward, or backward, thus, 'pass' is not allowed. Mathematical opponents (+,- ,x ,/) will be used depending on the vacant square's operation symbol where the 'taker' chip lands by jumping over the 'taken' chip (the latter chip has to be removed from the board after performing the indicated mathematical operation and recording same in the score sheet).
5. In taking more than one chip, the 'taker; chip is always the addend, minuend, multiplicand, or dividend as the case may be.
6. In taking a chip or more than one chip, the *dama* rules on 'dama mayor dalawa or tatlo', mayor tatlo over dalawa', 'mayor dama, and 'mayor dalawa or tatlo over dama' prevail.
7. A chip is declared 'dama' upon reaching terminally on the following designated squares:
   for red chips: (0,7)   (2,7)   (4,7)   (6,7)

   for blue chips: (1,0) (3,0) (5,0) (7,0)

8. A 'dama' chip is allowed to take a chip or more than one chip, or move to any unoccupied square along its diagonal path. Moreover, a dama's score is doubled in taking a chip or chips, and quadrupled if it takes the opponent's dama chip or chips, and ordinary chip's score is doubled if it takes a dama chip.
9. A 'move' [eg. 2-> (6,3)] is good only at the most for one (1) minute including its corresponding entries in the score sheet; while, the game's duration is twenty (20) minutes.
10. The game ends when any of the following situations occur:
- If no show of one player is declared after ten minutes
- Repetitive moves of any or both players
- A player resigns
- A player's chip is cornered
- A player has no more chips to move
- The 20- minute game duration ended
11. The remaining chips have to be added to the respective players' total scores.
12. The player with the highest score will be declared winner.

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DAMATH – Secondary (Integers)

1. Each participating District/ private school should ONLY have one contestant from any Grades 7 – 10. The contestants should be a bona fide student enrolled in the current year.
2. Each participant should bring his/her own DAMATH board and chips.
3. Drawing lots determines a player who moves first.
4. The duration of the game is 20 minutes.
5. Time starts immediately after the contest administrator announces the GO signal.
6. The "*move*" is good only at the most for one minute which includes recording in the score sheet.
7. In taking a chip, "*pass*" is not allowed.
8. TOUCH MOVE.
9. Only one score sheet is allowed to be accomplished alternately by the two players whereby incorrect entries shall be their responsibility.
10. In case of incorrect entries in the score sheet, a player has to immediately call the attention of the facilitator by raising his/her hand. The appropriate corrections will be done before declaring a winner. Once the winner is already declared, it is final and unappealable.
11. The game ends when any of the following situations occur:
    a. If no show of one player is declared after ten minutes.
    b. Repetitive moves of any or both players.
    c. A player resigns.
    d. A player's chip is cornered.
    e. A player has no more chips to move.
    f. The 20-minute game duration ended.
    The remaining chips have to be added to the respective players' total score.
12. The player with the greatest total score will be declared winner.