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COMPETITION OVERVIEW

September, 2017

OBJECTIVE

After 13 years of success of Dawn In Education's DAWN Spelling Bee, and the inaugural Math Challenge by EDeQUAL, DAWN and EDeQUAL, a pioneer in technology-enabled learning solutions for Maths and Science, are organising Math Challenge 2018. Math Challenge is a high-tech, high-energy inter-school competition that will test the mathematical reasoning and analytical capabilities of the next generation of problem-solvers in Pakistan.

This is a national, inter-school competition in which students in classes 7, 8, 9 and 10 will have the opportunity to demonstrate their intellectual, analytical and problem solving skills using Math.

The competition aims to:

- Strengthen the mathematical reasoning and analytical capabilities of the next generation of problem solvers in Pakistan
- Foster a love of mathematics
- Identify Math talent

ORGANISATION

The competition will be held in Karachi, Lahore and Islamabad. Schools from each of these cities are invited to participate in the competition.

Students will be divided into two groups.

- Group 1: classes 7 & 8
- Group 2: classes 9 & 10

The competition for each group will be conducted separately.

There will be four knockout rounds in the competition.

1. SCHOOLS ROUND. This round will be conducted within each participating school. Students will take an online quiz in their computer lab. The scores of all participating students will be tallied to calculate a school score. The top two-third schools will proceed to the next round. Each school that proceeds to the next round will constitute a team of two students per group to represent the school. Normally these two students will be the top scorers from their class.

2. PRELIMINARY ROUND. This round will be conducted in each city, bringing together the competing teams from each school. The top ten percent of competing school teams will progress to the third round of the competition.

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3. REGIONAL ROUND. This round will involve the best teams from each city, who will compete to be the regional winners (from Karachi, Lahore and Islamabad). The ten best teams across the three regions will proceed to the final round.

4. FINAL ROUND. The final round, to be held in Karachi, will bring together regional winners and seven other top teams to compete for the national Math Challenge championship. Winning teams and runner up teams will be awarded exciting prizes and recognised nationally in DAWN.

REGISTRATION

Schools must register by October 31, 2017 for the competition by completing an online registration form: www.mathchallenge.pk/registration followed by sending the registration fee to Math Challenge.

Schools may register to compete in Group 1, Group 2, or both groups. There is a minimum participation requirement of 25 students per class (or 50 students per group). For example, if a school wishes to compete in Group 1 it must have participation in the schools round from at least 25 students in class 7 and 25 students in class 8. However, there is no limitation on the maximum number of students that the school can register in each group.

COST

The cost of competing in Math Challenge involves:

- School registration fee: Rs 3,300
- Student participation fee: Rs 300 per student

Schools that wish to register must promote the competition internally to their students and parents. Math Challenge will provide posters that can be placed within the school premises, and informational flyers that can be sent to parents.

Every student who registers for Math Challenge will receive:

- A unique username and password to access Math Challenge - School Round (to be administered by the school)
- A completion certificate showing their score achieved in the School Round
- An opportunity to be selected for their school team for subsequent rounds of the competition
- A coupon worth Rs 299 that can be redeemed for EDeQUAL's online assessments, which can be used to test their Math competency level

RULES

- The competition is conducted in English.
- The competition takes place between January and March 2018.
- Each round of the competition will be timed and completed within 2 hours.
- There will be a mix of questions in each round that will cover a wide range of topics in internationally leading Mathematics curricula. Answering these questions correctly will require Math concept understanding as well as problem solving and analytical skills.
- Questions will be accorded points by their level of difficulty.
- Calculators are not permitted.
- Further details on each round and how the competition will be conducted will be provided to schools when they register.

TOPICS COVERED

Students should expect questions from the following Math topics (by grade level):

GROUP 1		GROUP 2	
Class 7	Class 8	Class 9	Class 10
Factors, Multiples and Integers	All topics from class 7, plus:	All topics from class 7 and 8, plus:	All topics from class 7, 8 and 9, plus:
Rational Numbers	Functions and Graphs	Expansion and Factorisation of Algebraic Equations, Algebraic Manipulation and Formulae	Indices and Standard Form
Percentages	Basic Geometrical Concepts and Properties	Graphs of Linear (2 Unknowns) and Quadratic Equations	Linear Inequalities
Fundamental Algebra and Algebraic Equations & Inequalities	Angle Properties of Polygons	Solutions to Quadratic Equations	Coordinate Geometry
Ratio, Rate and Speed	Statistics	Set Language and Notation	Trigonometrical Ratios and Further Trigonometry
Perimeter and Area of Simple Geometric Figures	Direct and Inverse Proportions	Congruence and Similarity	Mensuration - Arc Length, Sector Area, Radian Measure
Volume and Surface Area		Area and Volume of Similar Figures and Solids	Geometrical Properties of Circles
Functions and Graphs		Probability	

Questions will be of different difficulty levels, and throughout, the emphasis will be more on question interpretation and analysis and less on complicated calculations. Subsequent rounds of the competition will be more challenging than earlier ones.