30th ARYABHATTA INTER-SCHOOL MATHEMATICS COMPETITION: 2013 TO BE HELD ON SATURDAY, 2nd FEBRUARY, 2013 CLASS: V & VIII

Dear Principal

This is to inform you that the much awaited 30th Aryabhatta Inter-School Mathematics Competition for classes V and VIII will be held on <u>Saturday</u>, 2nd February, 2013 at 10:30a.m in the school premises. The students of class- V and VIII only are eligible to participate in this competition. The attached Roll No. Form, Entry Form (duly filled in) & Entry Fee of Rs.100/- per participant in the form of Bank Draft/ Pay Order in favour of "Summer Fields School, Kailash Colony, New Delhi" should reach the office of the undersigned latest by **Friday**, 14th December 2012 (2:00pm).

Copies of the following are enclosed herewith:

- Rules & Regulations for the competition.
- The syllabus for the competition.
- Entry Form (to be sent back to the host school).
- Roll No. Form (to be sent back to the host school).

Awards & Certificates:

- **Trophy** (rolling) to the school scoring **highest average percentage** of all ten students (for classes V & VIII each).
- Runners up Trophy (rolling) to the school scoring 2nd highest average percentage of all ten students (for classes V & VIII each).

Individual Prizes (for Classes V & VIII each):

1st Prize
 2nd Prize
 3rd Prize
 Scholarship of Rs.1500/- per month for 1 year & Memento
 Scholarship of Rs.1000/- per month for 1 year & Memento
 Scholarship of Rs.500/- per month for 1 year & Memento

• Consolation Prizes : Scholarship of Rs.250/- per month for 1 year & Memento to each of

the next 4 students in the Merit List in Class VIII and next 3 students in

the Merit List in Class V

75% & above : Certificate of Merit & Memento

• 65% & above : Certificate of Merit

We extend an invitation & seek your co-operation in making the competition successful.

Looking forward to your participation,

With warm regards,

Yours sincerely,

Mrs. Rema Alex Daniel (Principal)



KAILASH COLONY, NEW DELHI-110048

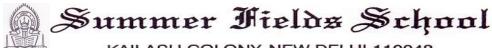
30th ARYABHATTA INTER-SCHOOL MATHEMATICS COMPETITION: 2013 <u>CLASS: V & VIII</u> <u>TO BE HELD ON SATURDAY 2nd FEBRUARY, 2013</u>

HELD ON SATURDAY 2nd FEBRUARY, 2013 RULES & REGULATIONS

1. Each participant should have the admit card which will be issued by the participating school in the format given below.

30 TH ARYABHATTA INTER-So Admit card	CHOOL MAT	HEMATICS COMP	ETITION: 2013
NAME:	_CLASS:	ROLL NO.:	
FATHER'S NAME:			
ADDRESS:			ATTESTED PHOTO
SCHOOL:			
SIGN OF THE PARTICIPANT School)			TH SEAL (Participating

- 2. Duration of the competition will be 2 hrs. (10:30 a.m. to 12:30 noon) for class V and VIII both.
- 3. Reporting time for the participants is **9:00 a.m**.
- 4. The number of participants from each school should be **TEN**.
- 5. If a school sends an entry for less than 10 participants, they will be treated as individual entries and will be entitled for individual prizes only.
- 6. Position will be granted to the school only if the number of candidates appeared is **TEN**.
- 7. The Rolling Trophy for the competition will be awarded to the Institutions with First & Second highest average percentage of all TEN students. In case of a tie, the trophy shall be shared by the Institutions.
- 8. The host School (**Summer Fields School**) will not compete for the trophy. Its participants will be eligible for individual prizes only.
- 9. Results will be declared on **8.02.13** and will be displayed on the school notice board. The result can also be seen on the website: www.summerfields.co.in. The results of the participating schools will also be sent by post.
- 10. It shall be the responsibility of the Winning School to arrange to send back the trophy to the office of the Principal, Summer Fields School, Kailash Colony, New Delhi latest by 2nd Dec, 2013 (2:00pm). During this period the winning school will be responsible for the maintenance & safe custody of the trophy.
- 11. Entry forms & Roll No. forms may be submitted in the Office of the Principal between 9:00am to 2:00 pm on all working days, latest by 14thDecember, 2012. No entry will be accepted after 14thDecember, 2012.
- 12. The names sent by the school shall be treated as **Final & No change** shall be allowed thereafter.
- 13. Out station candidates have to make their own Boarding and Lodging arrangements.



KAILASH COLONY, NEW DELHI-110048

SYLLABUS FOR ARYABHATTA INTER-SCHOOL MATHEMATICS COMP.- 2013 (Class V) (PROBLEMS BASED ON THE FOLLOWING TOPICS)

1. Four Fundamental Operations of Mathematics

3. L.C.M & G.C.D (H.C.F)

5. Metric System

7. Time Conversions

9. Polygons

11. Triangles

13. Speed, Distance, Time

15. Perimeter of Linear Figures.

2. Roman Numbers

4. Decimals & Fractions

6. Percentage

8. Lines and Angles

10. Circle

12. Average

14. Area of Squares & Rectangles

16. Volume of Cubes & Cuboids

SYLLABUS FOR ARYABHATTA INTER-SCHOOL MATHEMATICS COMP.- 2013 (Class VIII) The duration of the Test will be 2 Hours and Maximum Marks will be 100.

UNIT: 1

Percentage, Profit & loss, S.I, C.I, Ratio & Proportion, Time & Work, Unitary method, Direct & inverse variation.

UNIT: 2

Area & Perimeter of all three sided & four sided plain figures & circle; area & volume of cube, cuboid, cylinder, cone & sphere, hemisphere, combination & conversion of solids.

UNIT: 3

Number system: Addition, Subtraction, Multiplication, Division of numbers, fractions

UNIT: 4

ALGEBRA: Addition, Subtraction, Multiplication & Division of algebraic expressions (including quotient from) Simplification of brackets.

Solution of linear equation in one variable & pair of simultaneous linear equation in two variables & problems

FACTORIZATION: Factorization of algebraic expression using special products and factorization of quadratic polynomials.

UNIT: 5

GEOMETRY: Congruency and similarity of triangles, parallel lines, vertically opposite angles, adjacent angles, linear pair, triangles, quadrilateral, parallelogram, trapezium, rhombus, rectangle and square and related properties, Circles.

UNIT: 6

STATISTICS: Frequency distribution and cumulative frequency distribution table, range and class marks; mean, median and mode of ungrouped data.

FORMAT OF QUESTION PAPERS FOR VIII

A. Logical Reasoning (MCQs) 10 Questions of 1 mark each. B. Multiple Choice Questions 20 Questions of 1 mark each. C. Free Response Questions (Type I) 20 Questions of 2 marks each. D. Free Response Questions (Type II) 10 Questions of 3 mark each.

No working / descriptive answers of any question is to be given. Only the answers are to be written in the space provided.