

21st November, 2011

29th ARYABHATTA INTER-SCHOOL MATHEMATICS COMPETITION: 2012
TO BE HELD ON SATURDAY, 21st JANUARY, 2012
CLASS: V & VIII

Dear Principal

This is to inform you that the much awaited 29th Aryabhata Inter-School Mathematics Competition for classes **V and VIII** will be held on **Saturday, 21st January, 2012 at 10:00a.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, **16th December 2011 (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:

- **Silver 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 : Rs.2100/- (Cheque) & Memento
- 2nd Prize : Rs.1100/- (Cheque) & Memento
- 3rd Prize : Rs.750/- (Cheque) & Memento
- 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)



Summer Fields School

KAILASH COLONY, NEW DELHI-110048

29TH ARYABHATTA INTER-SCHOOL MATHEMATICS COMPETITION: 2012

CLASS: V & VIII

TO BE HELD ON SATURDAY 21ST JANUARY 2012

RULES & REGULATIONS

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

<u>29TH ARYABHATTA INTER-SCHOOL MATHEMATICS COMPETITION: 2012</u>	
<u>Admit card</u>	
NAME: _____ CLASS: _____ ROLL NO.: _____	ATTESTED PHOTO
FATHER'S NAME: _____	
ADDRESS: _____ _____	
SCHOOL: _____	
SIGN OF THE PARTICIPANT	SIGN OF THE PRINCIPAL WITH SEAL (Participating School)

2. Duration of the competition will be **2 hrs. (10:00 a.m. to 12:00 noon)** for **class V** and **VIII** both.
3. Reporting time for the participants is **8:30 am**.
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 **31.01.12** and will be displayed on the school notice board. The result can also be seen on the website: www.summerfieldsschool.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 **1st Dec, 2012 (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 **16th December, 2011**. **No entry will be accepted after 16th December, 2011.**
12. The names sent by the school shall be treated as **Final & No change** shall be allowed thereafter.



SYLLABUS FOR ARYABHATTA INTER-SCHOOL MATHEMATICS COMP.- 2012 (Class V)
(PROBLEMS BASED ON THE FOLLOWING TOPICS)

- | | |
|---|----------------------------------|
| 1. Four Fundamental Operations of Mathematics | 2. Roman Numbers |
| 3. L.C.M & G.C.D (H.C.F) | 4. Decimals & Fractions |
| 5. Metric System | 6. Percentage |
| 7. Time Conversions | 8. Lines and Angles |
| 9. Polygons | 10. Circle |
| 11. Triangles | 12. Average |
| 13. Speed, Distance, Time | 14. Area of Squares & Rectangles |
| 15. Perimeter of Linear Figures. | 16. Volume of Cubes & Cuboids |

SYLLABUS FOR ARYABHATTA INTER-SCHOOL MATHEMATICS COMP.- 2012 (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 form) Simplification of brackets.

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

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 Answers (Type I) | 20 Questions of 2 marks each. |
| D. Free Response Answers (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.