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Vedic Mathematics in Social life

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Abstract:
In commemoration of Indian knowledge system and cultural heritage of Vedic period, we can't forget the high significant as well as technical balance in social, economical and political activities of human life. Vedic Maths originated from the Vedas to the ancient system and it was rediscovered by Sri Bharti Krishna Tirthaji. It is basically a tuning on 16 Sutras or word formula. The formulae describe the way the mind works naturally creating great help in encouraging the students to find appropriate solution to the rising problems in a society or real life. Of course, It makes math easier, fast, enjoyable leading to innovative ideas.
The beauty of Vedic Mathematics is that the calculations can be carried out with immediate rapid action. Even the learners can develop their own innovative ideas mentally prepared to solve the problem fast saving time and energy leads to creativity and intelligent. Really this is the way how to grow and produce interest in education in a better form to overcome the hassle in conventional Mathematics. It provides one line mental, superfast along with quick cross checking, increases concentration and improves confidence removing phobia of Mathematics. More over students learn with smiles gain helpful in logical thinking as well as improving their overall abilities. In fact this is the way to achieve success in competition recording high scores in complicated Mathematical reasoning problems in viewing human race to have stability in society. Now –a-days, all most all competitions such as Banking, Railways and service commission too have mental reasoning problems are inducted to check the ability of aspirants. It is ,therefore, needful action to draw the attention towards the Vedic era starting from Akadhken Purven(By one more the one before), Nikhilam Nawtschamam Dastah, Anurupyena to All the Multipliers.
Keyword: *Indian knowledge system, Vedas, innovative ideas*

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I. Introduction:

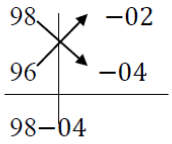
Vedic mathematics is one of the original mathematical technique originates from Vedic era. It is needful to present scenario to opt in daily activities. It provides one line mental, superfast along with quick cross checking, increases concentration and improves confidence removing phobia of Mathematics. More over students learn with smiles gain helpful in logical thinking as well as improving their overall abilities. The whole paper is distributed in the following five segments from I introduction, II Theory and technique, III conclusion, IV acknowledgement and V reference to incorporate the thorough study relating the method and technique.

II. Theory and technique:

The Vedic mathematics is based on sixteen formula using addition, subtraction and multiplication appearing as Sanskrit shloka having deep and relevant meaning. The whole ideas are discussed as the points with accurate explanation below.

1 **Akadhiken Purven(By one more the one before**): This is used to the squaring of number ending in 5. eg 35^2
Here last digit is 5 and previous digit is 3, as per sutra(formulae), one more than previous one, which is 3+1 = 4. Multiply, 3×4 = 12 and last digit which is 5 and square of 5 is 25.
∴ $35^2 = 3\times(3+1)$, which is 12 and 25 so answer is 1225.
same way $85^2 = (8\times 9)$ and 25 = 7225.

2 **Nikhilam Navatascaramam Dasatah** – all from 9 and the last from 10. This is used in multiplying of numbers, which are near to base like 10, 100, 1000 i.e. to the powers of 10, e.g. 98×97, 108× 102
eg 98× 96- both are closer to 100, so base is 100, subtract value from $98-100 = -02$ and $96-100 = -04$. Now subtract crosswise so value either way so it will become 94 and multiply vertically which is (-02×-04)= 08



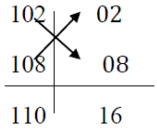
or 96−02

or 96−02

is 94 on vertical multiply of −02 and− 04 is 08, so the final answer is 9408

iily

102 × 108

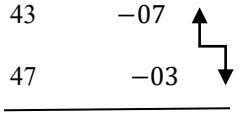


Ans: 11016 In case it is +ve it is to be added.

3**. Anurupyena**- It is associated to proportionality or similarity. It is useful to find the products of two numbers when both of them are near the common bases like 40, 50, 80, 200 etc (Multiples of powers of 10)

eg. 43 ×47 ½ of 40 and multiply −07 and −03, so the final

ans: 2021



4.**Urdhva –Tiryagbhyam- it is vertically and crosswise**

5.**Ekanyunyena Purvena**- it is one less than previous , is used in case of multiplication by 9, 99, 999…..
eg 15 ×99 , To solve this kind of problem we deduce 1 to the left side digit 15 −1 = 14 it is then 99 −14 = 85
Hence the final answer is 1485.
In this way almost all the formulae constructed to solve the mathematical operation in easier way for the sake of social requirement how to provide rapid information not only to have competition but also for interaction to people as well as in communication world so as to run the system fast saving time and energy.

III. Conclusion:

Vedic Mathematics is prominently used to hike mathematical calculation with high speed along accuracy. It can be used in complex arithmetic, algebra and calculus. Moreover, it reduces mental setbacks removing anxiety, boosts efficiency enabling the students to succeed in competitive examinations-such as railways, S.S.C., Air-force, C.A. and Banking. It can also be placed in optimizing some quantitative results. On the other hand, Vedic Mathematics is actually applied in real life such as financial estimation, Billing and Budgeting.

Acknowledgement: The wonderful world of mathematics is really found in Vedic era Bidder G.P. (1856) On Mental Calculation. Minutes of Proceedings, Institution of Civil Engineer. I would also like to acknowledge and thank some of my friends who gave me inspiration to seek this technique.

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