



MATHEMATICS, AN ASSET : INFLUENCING ALMOST EVERY SPHERE OF HUMAN LIVES

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Abstract :- This paper, tries to highlight how math has become an indispensable part of our live that almost every one of us from every field is using it quite unconsciously in almost every field of our day to day life situations in such a way that it has become an inseparable part of human life. Right from the very beginning of our lives and also from the very beginning to the end of the day we are using math unknowingly and unconsciously that its importance in our lives can't be denied by any one. Even situation becomes such that now –a –days we can't even imagine our live without mathematics . As for example, we schedule our day's program just looking at the clock or at the hand watch and this refers to nothing but only the use of math itself . Likewise, math is used in the kitchen, in cosmetics, in parlour, in market, in banking, in gardening, in computer, laptop, mobile phone etc . Thus this paper also discusses about a few of our daily activities that involve the use of this universal subject .

Key words : - Math, unconsciously, inseparable, parlour, banking, computer, education system .

Introduction : - We know that mathematics is a very important and interesting subject to learn about . It is often found that people who are adept in math also lead their lives wisely and economically .This sort of people always lead their lives with some measurement almost in every sphere of their lives that there remains not even a single chance of losing anything in their lives . Math has become almost an inseparable part of our lives and whether we work in an office or spend most of our time at home , each one of us are using math as a part of our everyday life . No matter where we are as well as whatever we are doing, math is always there almost attached with us whether we notice it or not . Thus, mathematics is a very important subject and it must always be there included in our school syllabus .We can't even dream of a course – syllabus without mathematics in secondary education system.

Objectives :- A few objectives of writing this paper are –

- (1) To reveal the fact that how math has become a very important subject in our life .
- (2) To highlight how math is used by almost everyone of us quite unconsciously in every field of our day to day life situations .
- (3) To emphasize the fact that math has become an inseparable part of our lives only because of its vast use in every sphere of our lives .

(4) To reveal the fact that now a days we can't even imagine our lives without math .

Methodology : -The methodology used here is descriptive and empirical .

1. Use of Mathematics from the very beginning to the end of the day : - We can't deny the use of mathematics in our day to day life situations . Below are given a list of daily activities that involve the use of this universal subject :-

(1)As for example, we use the clock or watch to look at the time and accordingly we schedule our day's program . So, when we look at the clock or watch , by doing so herein we are using some math unconsciously .

(2)Again, when we get up early in the morning we have some necessary everyday works to do just like to brush our teeth, go for toilet, having breakfast, take a bath, to be ready either for office or for some other work place in case of a working man or woman and while doing all of these activities we use math as every man or woman performs these duties following time and thereby using math.

(3) Use of math while be ready for household works like taking care of children, cleaning and maintaining the house , cooking etc., for a lady in case she is a house wife etc.

(4)Not only so, we make time-table and divide and set and do our whole-day works accordingly.

(5)After going to office or other work places also we act following some scheduled time-table and thus we use math here also.

(6) In our lunch time we take lunch. After returning home from our work places , we get fresh, wash our faces, hands and feet ; take tea and biscuits, then take rest , some of us go for evening work and then at some fixed time we take our dinner and then go to sleep. Thus in the whole day we use math here and there from time to time in almost every activities of us.

(7)Math is all around us, it is everywhere we go. Not only does Math underline every process and pattern that occurs in the world around us, but also a good understanding of it will help enormously in our everyday life .

2. Use of Math in the Kitchen : -

One might not think that math has much to do with cooking, but the truth is that the better one's math skills are, the better one will be in the kitchen. One should just consider the importance of math while one is trying to follow a recipe .Math shows up in many aspects of –(a)cooking and baking, including ,

- (b)converting temperature from Celsius to Fahrenheit and vice versa ,
- (c)changing the quantities of ingredients provided by a recipe and
- (d)working out cooking times based on weight .

If one want to make more than one batch, one needs bigger quantities of every ingredient . One should multiply each ingredient by the number of batches. For example , if a recipe provides an ingredient list for six cookies but one want to make 12 cookies, one need to multiply all ingredients by two to make one larger batch . Even that may involve multiplying fractions, for example if the recipe calls for $\frac{2}{3}$ cup of milk, and one need to double it, the formula is $2 \times \frac{2}{3} = \frac{4}{3} = 1$ and $\frac{1}{3}$.

Thus, a knowledge of fractions is also useful if one want to make a smaller batch than the recipe. For example, if the recipe provides an ingredient list for 24 cookies, but one only want to make six cookies. In this case one need to quarter each ingredient. So, if the recipe requires two teaspoons of baking powder, one only need $\frac{1}{2}$ a teaspoon because $\frac{2}{4} = \frac{1}{2}$. We also use math in the kitchen unknowingly. As for example, while preparing tea we should first of all know the proper ingredients and their proper quantity as to how much or what quantity of these ingredients each is to be added to make tea , as for example, how much water, sugar, tea or milk or flame, that is how much heat and of course how much time is exactly needed . Again in preparing any dish we should

know the use of different ingredients and also their proper quantity and how much time is needed to make it is also important to know and all of these shows nothing but only the use of math in the kitchen .

3. Use of Math in Cosmetics :-

Math is also used in the apply of cosmetics . Makeup is a cosmetics that is used to make people look beautiful. It includes mascara, lip gloss, lipstick, eye shadow, eye liner, foundation ,face powder and many more. To makeup, one first have to measure how much of each ingredient is needed. Also containers come in a variety of geometric shapes. The weight of containers also can be different from one product to another. Thus, makeup relates to math because of geometry. People can have different kind of shapes of faces - a circle, triangle, square or even oval. Makeup is applied to these shapes of faces to enhance beauty. Thus ,when a lady takes make-up, she should know the proper use of the make-up ingredients,say,she should use the proper quantity of foundation and moisturizer to mix up and then apply on her face and neck , how to apply kajal, eye liner, mascara, face powder , blusher , lip liner and lipstick and so on .

As for example, mascara is applied to the eyelashes to make them thicker, darker, and longer. There are different formulas for making mascara and what is different in each one is the percentage of each ingredient. Long ago, mascara was made of 50% soap, and 50% black pigment. But now different ratios are used, along with more than just two ingredients. Lip gloss is used to protect lips and give them a shiny appearance . It can be purchased in many different shapes such as a cylinder or a sphere. Also lip gloss comes in different weights, each a decimal. A typical tube might weigh, 15 oz, but a sphere shape might weigh 25 oz.

Chapstick is a brand name for a waxy lip product that protects the lips. Sometimes it has sunscreen in it. It can be scented or unscented. Generally , the weight of a cylinder of Chapstick is .15oz. The product sometimes comes in a 3-pack, so the total weight for that package is .45oz.

Eye shadow is applied to the eyelids and under the eyebrows. It comes in many colors and styles, and is used to add depth and dimension to the eyes. There is evidence that people used eye shadow as long as 12,000 years ago in Ancient Egypt .Side by side, one should also know how to hair-style at different occasions as for example, pony tail or leave the hair open and so on and all of these signifying nothing but the importance of math in cosmetics .

4. Use of Math in Parlour :-

Math is also used at different parlours . All of us know that now-a-days, going to parlours becomes a very indispensable part specially for ladies. Most of the ladies generally go to parlours to take better care of their faces and skin and also for hair-style i.e. to cut their hair into different shapes like- straight, step, laser, not only so but also for giving simple hair cut etc. and while doing so the beautician use some techniques expressing math. In case of facial, manicure and pedicure also she uses some techniques and thus is using math there . As for example, in case of facial, scrub and massage they know the proper quantity and techniques to apply them on the different faces depending on their skin as to which one will suit better the customer's skin etc.

5. Use of Math in Markets :-

Math is also used in market places . Being fast in Mental arithmetic can save one's money when one goes to market. When a customer goes to market and reaches any shop to buy something from the shop-keeper, then the buy-sell between the customer and the shop-keeper takes place only through some calculations that expresses the apply of math. As for example, how much rice, how much sugar, how much dal etc. are needed to express through some calculations like -2 kilo rice, $\frac{1}{2}$ kilo sugar, 1 kilo dal etc. and even how much money needed to buy them is also expressed through calculations like 2 kilo rice =Rs. 100 , $\frac{1}{2}$ kilo sugar =Rs. 30 , 1 kilo dal = Rs. 60.00 etc. So, the total amount needed to buy them is – Rs.100 + Rs. 30.00 + Rs. 60.00 = Rs. 190.00 and this expresses nothing but math only .

6. Use of Math in Laptop, Mobile phone and Computers : -

Now a days, most people chat on the cell phone as a way of communicating with others . It is easy, accessible and cost effective . Everyone has a cell phone and it requires a basic knowledge of skill and math . One needs to know numbers and how they work . The same thing also happens in case of using a laptop or a computer. In today's technology, one can do basically everything on his cell phone or laptop or computer, from talking and faxing to searching the internet etc. and while doing everything such things, one is using some techniques expressing some math .

7. Use of Math in English literature, language and English Grammar : -

If we think deeply then the usage of math is also seen in English literature, English language and English grammar too to some extent . As for example, in English literature we often find the use of numerical like, firstly or first of all, secondly, thirdly etc. which reveals the use of math . Even the different English writers and poets have their own writing styles and they use their own skills and techniques of writing in their works . This also expresses their use of math throughout their writing styles, skills and techniques .

Application of math is also found in English language to some extent . As for example, in English phonetics , that deals with the study of sounds involves some math, in the pronunciation of the sounds like - /p/, /b/, /t/, /d/, /k/, /g/ etc. which involves speech organs and in articulating the speech sounds one has to use different speech organs used in specific techniques that express math.

Not only so, in English Grammar too , math is used to some extent . As for example, Number and Person portion of English grammar always involve some math . As while someone uses the words like Singular number and Plural number or when he comes across with words like 1st person, 2nd person and 3rd person, this signifies nothing but the use of math in English Grammar .As 'singular number' means one in number only and 'plural number' means more than one and these are referring only to some numericals. In the same way, numerical are also used in the teaching and learning of English grammar – 'Person'. To some extent in the teaching of tense, or in voice or in narration some fixed rules and regulations are used to be followed and this reveals the use of math . Because only following these fixed rules and regulations one can do grammar well. So, by doing so one is unknowingly using some math here and there .

8. Use of Math in Banking : -

Mathematics and Banking are closely connected . Extensive Math is involved in keeping track of the money in a bank . Banking is a world of numbers and Mathematics is used in the way where accounts are handled for calculating interest rates and for determining credit scores . We make the financial decisions depending on maths . We pay our bills, use coupons at the grocery store and by doing so doing nothing but using maths.

People go to banks to have proper accounts of the money that one wants to withdraw, deposit etc. They use math for budgeting, spending , saving, and investing . In each case, a good understanding of mathematical concepts will be beneficial for their personal finances. As banking refers to managing money, so we are all essentially "bankers" in our own lives. It is also important that bankers have a strong knowledge of fundamental quantitative concepts like understanding the basic principles of interest will help them to get the most out of their money. Knowing the advantages and disadvantages of interest will help one to be a smarter "banker". These mathematical principles play a very important role in our daily lives and can have a big impact on our financial future.

Thus, from the most basic concepts of budgeting and spending to the more complex concepts of investments and interest, math is used in our everyday lives with regards to banking. Not only will a strong foundation in mathematics help one to manage one's money, but it can help to shape one's financial future. No one without basic knowledge about math can do anything in a bank, hence making this subject an inseparable part of our

lives . We are using mathematical concepts everyday when we utilize online banking to help us pay bills, transfer money, and manage our personal accounts .

9. Use of Math by the Carpenter : -

Carpenters are always in need of some math for building anything. Even they can't imagine their work without math. As for example, constructing a solid piece of furniture, a level of counter top, or a comfortable room with plumb walls requires many different math skills. A good carpenter has a strong understanding of general mathematics, measurements and geometry. We often have heard the phrase "measure twice, cut once". This is a key phrase in carpentry. Being accurate in measurements helps to eliminate making mistakes when cutting lumber, thereby helping a carpenter to eliminate wastage of time and money associated with these mistakes. Many carpenters know sharp math skills and so they can quickly calculate these general math functions in their head.

In addition to accurate math skills for measurements, we should know how to convert measurements. Not everything is measured with one length or weight unit. Being able to convert between measurement, unit is the key. Converting between inches, feet, yards, pounds, ounces, and even metric, unit is important. To be sure that walls are straight, cabinets are level, and furniture is built solid, carpenters use geometry.

10. Use of Math in Gardening : -

Math is used in a lot of places in gardening . For example, fertilizer is created and applied using ratios of percentages of compounds of Nitrogen (N), Phosphorus (P), and Potassium (K), commonly called NPK ratio. If we look on a bag of fertilizer, the fertilizer NPK ratio are noted by numbers with colons between them. A common type is 1:1:1 , which means this fertilizer has a equal quantities of NPK in it. As for example, Google "1:1:1 fertilizer". Another type of fertilizer is 2:1:1, which means it has twice the nitrogen for each quantity of the other chemicals. There are lots of explanation of this in online with applications of fertilizer use in gardening ,to calculate how much of the fertilizer to apply for an area of land with different vegetables or other plants .

Conclusion : - Thus, math is very important in everyday life as it provides us to do the calculations easily and correctly. Math is a useful tool in our everyday lives. It helps maintain balance in our finance. Not only so, the measurements used with math can help architects build and design buildings and structures with great accuracy. Math helps us think analytically and have better reasoning abilities.. Math is used in cooking and baking to measure out ingredients as well. Math is used in sewing as well. We may not be using

calculus everyday, but math is still prevalent in everyday life .Math gives us a way to understand patterns, to quantify relationships, and also to predict the future. Math helps us to understand the future and people use the world to understand math. Math helps us understand the world. Math is a powerful tool for global understanding and communication. Using math, students can make sense of the world and solve complex and real problems .Thus, mathematics is considered to be the most important subject because without quantification our universe can't make sense to us or exist.

Findings : - Thus from the above discussion a few findings are found as given below : -

- Mathematics is a very important subject in our lives to learn it ..
- It is such important a subject that it becomes quite an inseparable part of our lives .
- Mathematics is used in almost every spheres of our lives quite unconsciously and unknowingly .
- Now a days we even can't imagine our lives without math because of its wide and vast importance.

Suggestions :- Math makes Physics, Physics makes Chemistry, Chemistry makes Biology etc. Hence, being good in math helps in long term in career in life . Math makes one smarter. The formulas and ideas one learns in math are very useful. Learning math develops critical thinking and problem-solving skills . Thus it makes one smarter. We can't even imagine our live without it . Thus, mathematics is a very important subject and it must always be there included in our school syllabus .We can't even dream of a course-syllabus without mathematics in secondary education system .

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