

STUDENT STUDY PROJECT
DEPARTMENT OF MATHEMATICS



A PROJECT WORK
ON
IMPORTANCE OF MATHEMATICS IN DAILY LIFE

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Submitted to

DEPARTMENT OF MATHEMATICS

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DECLARATION

We hereby declare that student study project work entitled "IMPORTANCE OF MATHEMATICS IN DAILY LIFE" is a genuine work done by us under the supervision of S.Madhavi Latha, Department of Mathematics, Dr.BRR Government Degree College, Jadcherla.

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CERTIFICATE

This is to certify that the student study project work entitled IMPORTANCE OF MATHEMATICS IN DAILY LIFE is a bonafide work done by the students of III MPC & MPCs V. Praveen Goud, E. Anil Kumar, E. Praveen Kumar, M. Sai Kumar, M. Vinod Kumar under my supervision for the award of student study project work in Mathematics, Department of Mathematics, Dr.BRR Government Degree College, Jadcherla.


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Content: This topic gives participants an overview of Mathematics . It helps them to understand the beauty of Mathematics.

Objectives

- What is the Definition of Mathematics?
- What is the Role of Mathematics in the World?
- What is part of Mathematics in Nature and Space?
- What is the role of Mathematics in Real Life?

INTRODUCTION

The term “MATHEMATICS” is derived from two Greek words:

‘Manthanein’ means “learning”

‘Techne’ means “an art or Technique”

Mathematics means the art of learning related to disciplines or facilities.

What is Mathematics?

The Dictionary meaning of Mathematics is that, “It is the Science of number or space.

OR

“The Science of Measurement, Quantity and Magnitude”.

About Mathematics

- Mathematics is the Queen of Science.
- Mathematics is not about numbers, equations, computations, or algorithms: it is about understanding.
- Life is a math equation. In order to gain the most, you have to know how to convert negatives into positives.
- Without mathematics, there's nothing we can do. Everything around you is mathematics. Everything around you is numbers.
- Mathematics may not teach us to add love or subtract hate, but it gives us hope that every problem has a solution.
- Mathematics Play an important role accelerating the social, economical and technological growth Nation.

Budgeting

How much is this shirt or blouse going to cost once the 50% sale is applied? What about once the taxes are added? Do you prefer to gather your things and hope for a great deal on the cash counter? Or know the price before heading there.

That takes maths knowledge and at least a basic understanding of how percentages work.



Exercising and Dieting



We set our routine according to our workout schedule, count the number of repetitions while exercising, etc., just based on maths.

Sports



Basic knowledge of maths also helps keep track of scores for every sports activity. Geometry and trigonometry can help your teens who want to improve their skills in sports. It can help them find the best way to hit a ball, make a basket or run around the track.

Cooking

The recipe calls for “3 tablespoons” of salt. You only have a teaspoon or a soup spoon. The recipe calls for “2 cups,” but you only have a quarter cup measuring tool and a half cup measuring tool. How much adds up to “2 ”? You may know the answer. But that’s because you understand maths, fractions, and conversions.



Driving



Operating a car or motorcycle is ultimately nothing but a series of calculations viz. How many kilometres needed to reach the destination? How much petrol is in the car? How many kilometres per hour am I able to drive? How many kilometres per litre does my car get? Oh no, I've hit a traffic jam, and now my pace has slowed, am I still going to make it to work on time?

All of these questions are extremely easily answered with basic maths skills.

Home Decorating

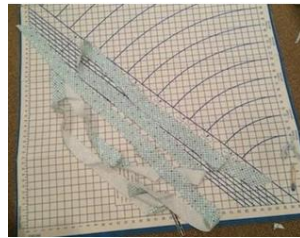


How many rolls of wallpaper do we need for this wall? What's the difference between a metre and a square metre? Do we have enough space to fit in your favourite couch? Common questions when you are trying to set up your new space or apartment. It's very important to know these basics before you head to a store, otherwise, you will end up coming back empty-handed as the sales representative won't be able to help you without the proper input from your side.

You should have a fair knowledge of dimensions and units and unit conversions to be able to sail through. It seems fairly simple if you know how to do the maths.

Stitching

Just home decorating, maths is also an essential concept of fashion designing. From taking measurements, estimating the quantity and quality of clothes, choosing the colour theme, estimating the cost and profit, to producing cloth according to the needs and tastes of the customers, maths is followed at every stage.



Critical Thinking

Technically 'critical thinking' is not even Maths as there are no numbers involved. But knowledge of Maths surely increases the ability to think critically. The more maths skills you gain, the more you observe the minute details, question the available data, rule out unnecessary data and analyse it further for your benefit.



Computer Applications

Computer applications are just impossible without maths. The concepts like algorithm, computation, and many other computer applications like word, excel, or virtual assistant Alexa are impossible to use/run without maths. It is ideal for programming languages and coding, due to its abstract nature. Anyone contemplating a career even remotely related to IT will find the knowledge of mathematics helpful and advantageous.



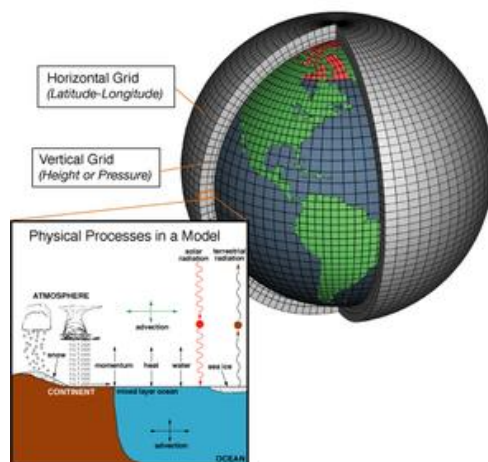
Hospitals

There are various uses of maths, even in hospitals. In hospitals, mathematics is required to plan numerous processes or operations accordingly, such as the number of ambulances required, when specific doctors are available, when the next operation will be performed, etc. One of the most extensive uses of mathematics in hospitals is making a clear or transparent record of all the patients



Weather Forecast

In your entire life, do you ever think that how can Meteorologists predict the weather for the upcoming few days or weeks? The credit of making it possible goes to mathematical concepts. With the help of mathematical operations, Meteorologists can easily predict whether the weather will be rainy or sunny in upcoming days. The mathematical concept



used to predict the weather of upcoming days is called probability.

Manufacturing Companies

Commonly every company wants to maximise its profit. Therefore they are required to sell their services or products at a specific price. The question that occurs here is how to find that specific price. Here the maths calculations will become very helpful for companies to find out the best price for their product that can maximise their profit directly. Mathematics will also become helpful for companies to find out how many quantities they require to create and how



they can reduce manufacturing costs.

Problem-Solving

One of the most common uses of maths in day-to-day life is problem-solving. With mathematical concepts, one can easily solve specific complex problems. And if you have good analytical skills, you can quickly solve any problem more effectively. If you are comfortable with mathematical operations, it will improve your calculation skills, and it will also help in bettering your analytical and logical thinking ability.



Marketing

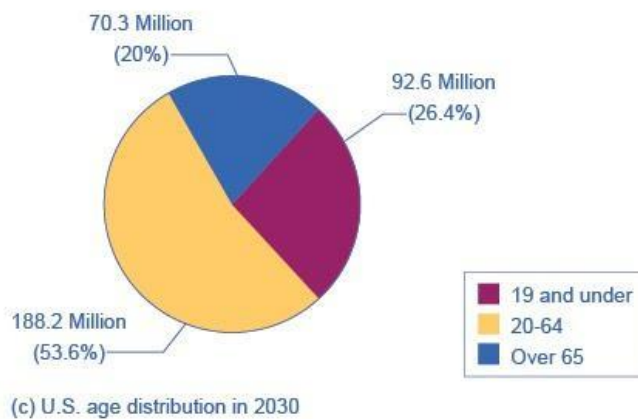
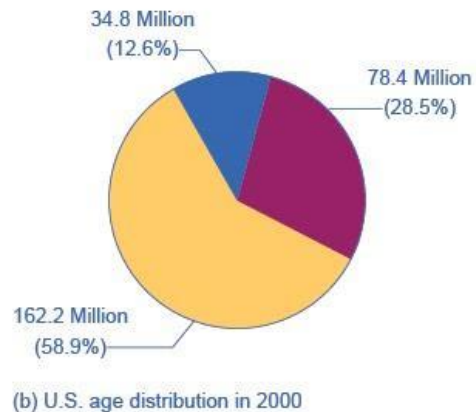
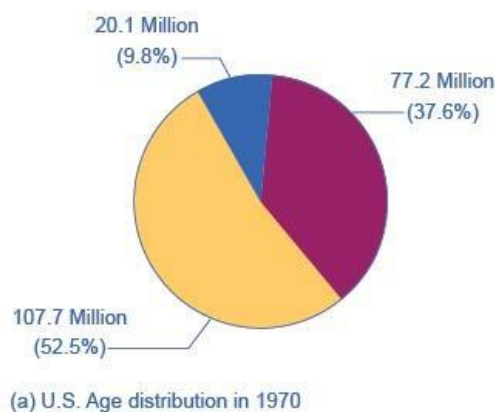
Every marketing company or agency intends to increase its profit by suitably marketing services and products. It does not matter online or offline, whatever means a marketing company uses to promote their products and services. They require mathematical calculations



to create effective and successful strategies

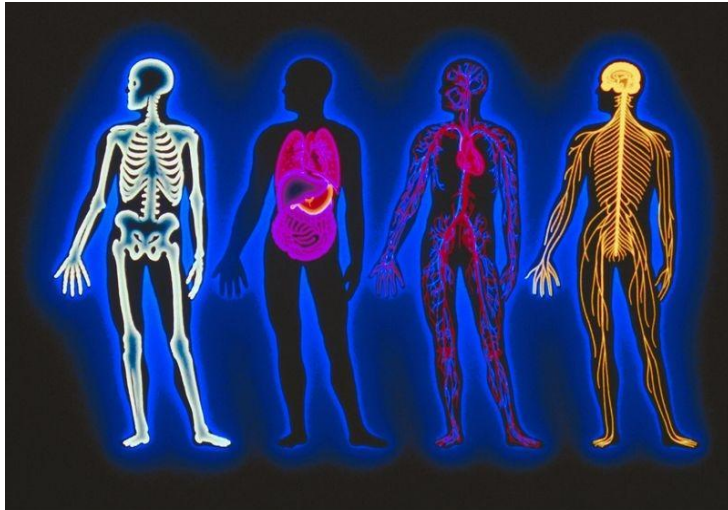
Economy

One of the most significant economic concepts is analysing the market and predicting future developments. It will become useful for politicians and companies to make plans accordingly. It is noteworthy that **mathematics** is required to analyse the market to make plans. So we can say that maths is one of the essential concepts for our market and economy.



Psychology

At present more and more human beings are suffering from the problem of mental health. A mentally disturbed person requires professional help. Therefore psychology has become more important than ever before. So lots of students are pursuing higher courses to become psychologists. There is no doubt that maths is an essential discipline in psychology.



Time Management

Undoubtedly, time management plays the most important role in our day-to-day lives. Generally, time is a limiting factor since everyone needs to perform numerous tasks within a limited period. With the help of mathematical concepts, we can easily manage our day-to-day tasks according to the limited time



Conclusion

Mathematics is really useful and significant in our daily life as it is associated with our everyday activities, developing our critical and practical abilities.

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