

**MAJOR ASSIGNMENT**

*FUNDAMENTAL OF MATHS*

*BY*

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* ***Importance of circle***

Circles are still symbolically important today -they are often used to symbolize harmony and unity. For instance, take a look at the Olympic symbol. It has five interlocking rings of different colours which represent the five major continents of the world united together in a spirit of healthy competition.

Some examples of circles in real life are camera lenses, pizzas, idlis, dosais, pooris, vadas, laddoos, tawa, pressure cookers, chaklas and belans, a cricket field, bottles, tyres, Ferris wheels, rings, steering wheels, cakes, pies, buttons and a satellite's orbit around the Earth. Objects rotating on an axis form circles which are useful in our daily life. Example: washing machine, fans, mixers, vehicles, bicycles, concrete mixers, water pumps, hair dryers.

Circles have a single constant radius around a center. Circles and their various properties, such as the radius, diameter, circumference and area, have applications in real life. If the radius of the circle is known, all the other parameters can be calculated. Important information can be determined for real life applications based on the parameters. For example, knowing the circumference of the planets helps us compare their relative sizes, and artificial satellites that are launched travel in orbits of certain circumference. The radius of curvature of a camera lens can be used to determine its focal length, which is the distance from the lens where light rays will focus. Pizza and cake sizes are determined by the diameter of the pan in which they are baked, and the distance travelled by a person sitting on a Ferris wheel can be determined by calculating the circumference of the wheel. Tyres of different vehicles can have different radii. The circumference of a ring needs to match the circumference of the finger on which it is worn for a good fit.

* ***application of circle***

***Some applications of the circle in daily life are:-***

1. Circles are frequently used in architecture.

2. One application of circles in science lies in the design of particle separators.

3. The invention of the wheel remains one of the most important inventions of all time. This circle made it possible for people to move and move things greater distances at faster speeds.