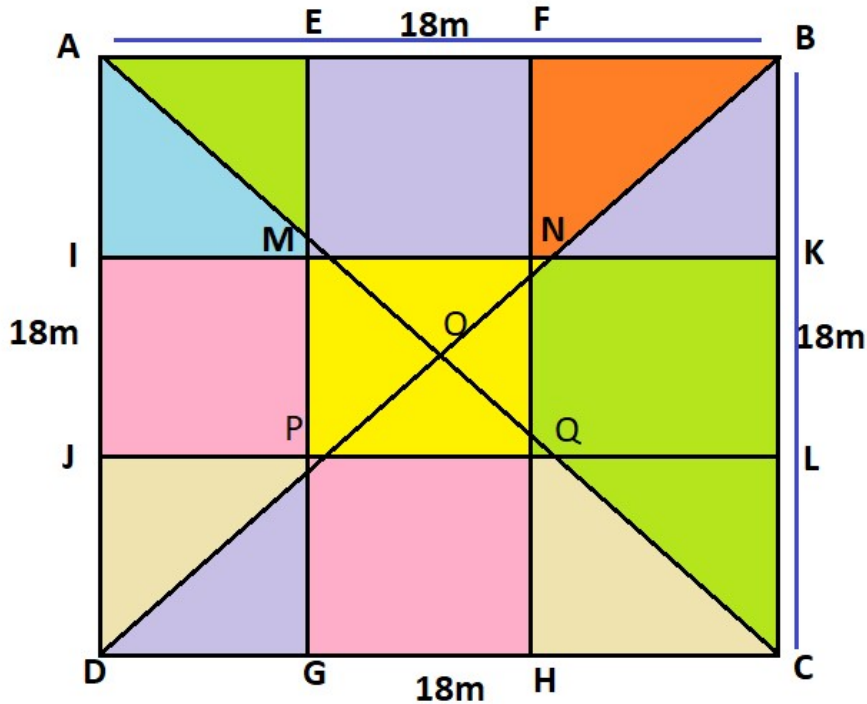




# SATISH CHANDRA MEMORIAL SCHOOL

## IX CASE STUDY (LINES & ANGLES)



Alexander is a student of Class IX. He is very good in Mathematics and he always scores full marks in Mathematics. His teachers are proud of him. He always studies Mathematics from his School Book. According to New Educational Policy, the children should focus more on conceptual learning rather than textbook Learning. His math teacher was teaching him lines and Angles one day. His classroom has marble floor. He can see some lines drawn on the floor. The floor of the room was given a particular shape. Diagonals were also drawn there. The figure of his room is shown in the picture above. Now answer the following questions:

1. What is the name of this figure?
2. What is the value of Angle FEM? State the reason.
3. If AC is a bisector of  $\angle DCB$ , Find the value of  $\angle DOC$ .
4.  $\angle DOC = \angle AOB$ . Name the property.
5. AB is \_\_\_\_\_ to CD and EM is \_\_\_\_\_ to IK