

CBT EXAM AUGUST (2025-26)
CLASS IX (MATHS)

SYLLABUS :

**CHAPTER 5 : INTRODUCTION TO
EUCLID'S GEOMETRY**

CHAPTER 6 : LINES AND ANGLES

Q 1 : Which of the following is NOT an Axiom ? *

- A) Things which are equal to the same thing are equal to one another.
- B) If equals are added to equals, the wholes are equal.
- C) If equals are subtracted from equals, the remainders are equal.
- D) A circle may be described with any center and any radius.**

Q 2 : How many dimensions does a surface have? *

- A) no dimension
- B) one
- C) two**
- D) three

Q 3 : A point has _____ dimensions . *

- A) no**
- B) one
- C) two
- D) three

Q 4 : It is known that if $(x + y = 10)$, then $(x + y + z = 10 + z)$.

Euclid's Axiom that illustrates the above is;

- A) First Axiom
- B) Second Axiom**
- C) Third Axiom

D) Fourth Axiom

Q 5 : The three steps from solids to points are: *

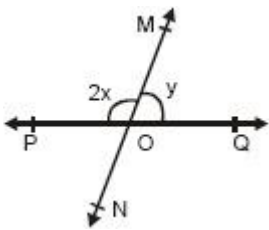
A) Lines - Points - Surfaces - Solids

B) Lines - Surfaces - Points - Solids

C) Solids - Lines - Surfaces - Points

D) Solids - surfaces - lines - points

Q 6 : In the given figure, lines PQ and MN intersect at O. Determine y when $x = 60$ degree.*



A) 40 degree

B) 50 degree

C) 60 degree

D) 70 degree

Q 7 : How many triangles can be drawn having its angles 45, 64 and 70 degree respectively?*

A) zero

B) one

C) two

D) three

Q 8 : If one angle of a triangle is equal to the sum of other two angles of triangle, then the triangle is :

A) a right triangle

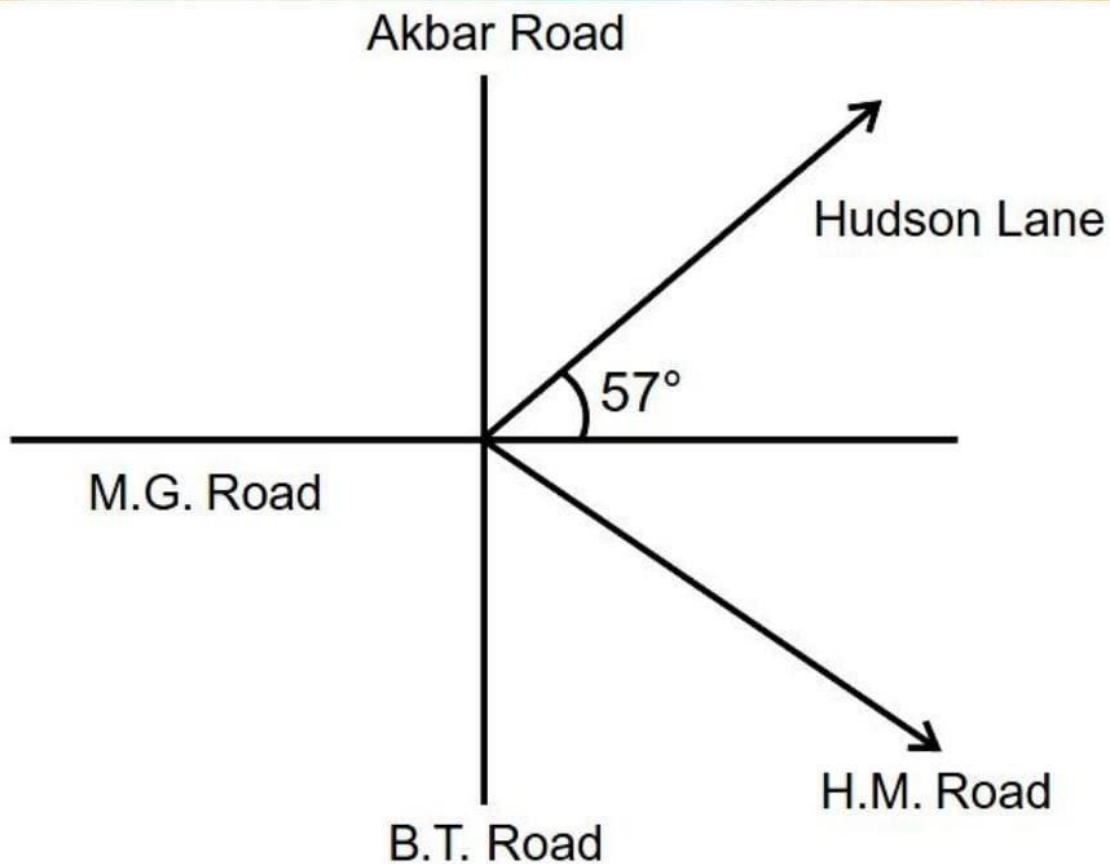
B) an isosceles triangle

C) an equilateral triangle

D) an obtuse triangle

CASE STUDY BASED :

Ritesh and Asim are cousins and both went to visit Mughal Garden. Before going, they searched the location of their destination on a map. During searching, they found that Akbar Road and M.G. road form a right angle at their intersection point and Hudson lane form 57° angle with M.G. road. Which leads to the following queries in their mind :



Q 9 : What is the measure of acute angle between Akbar Road and Hudson lane?*

A) 90 degree

B) 33 degree

C) 45 degree

D) 57 degree

Q 10 : If Ritesh is standing on M.G Road in the west direction and Asim is on H.M road, what is the shortest angle they can cover in order to meet?*

A) 217 degree

B) 157 degree

C) 143 degree

D) 280 degree