

CLASS TEST

SUBJECT : MATHEMATICS

CHAPTER : A TALE OF THREE INTERSECTING LINES

F.M: 10

TIME : 20 MINUTES

1. Where three medians meet, that point of intersection is known as –
(a) Centroid (b) In-centre (c) Circum-centre (d) Ortho-centre [1]
2. Identify the triangle whose two altitudes are also the two sides of the triangle.
(a) Obtuse angled (b) Right-angled (c) Equilateral (d) Acute angled [1]
3. Say TRUE/FALSE:
Medians of a triangle are always concurrent. [1]
4. For a ΔPQR , $\angle PQR = 40^\circ$, $\angle RPQ = 65^\circ$, Identify the third angle.
(a) 65° (b) 55° (c) 40° (d) 75° [1]
5. Check whether it is possible to have a triangle with the following sides or not:
13 cm, 19 cm, 6 cm [1]
6. Is it possible to draw an equilateral triangle with one angle measurement is 70° ? Justify your answer. [2]
7. Construct a triangle ΔXYZ whose $\angle YZX = 45^\circ$, $\angle YXZ = 75^\circ$ and $XZ = 5.6$ cm. [3]

OR

8. Construct a triangle ΔABC whose $\angle BAC = 112^\circ$ and $AB = AC = 6.4$ cm. [3]