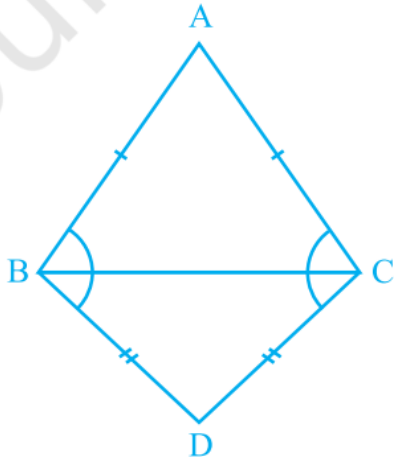
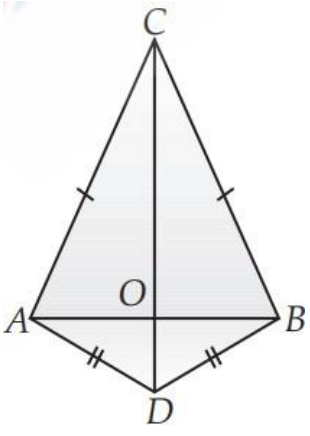
THE VILLAGE
INTERNATIONAL SCHOOL
"We Nurture Dreams"

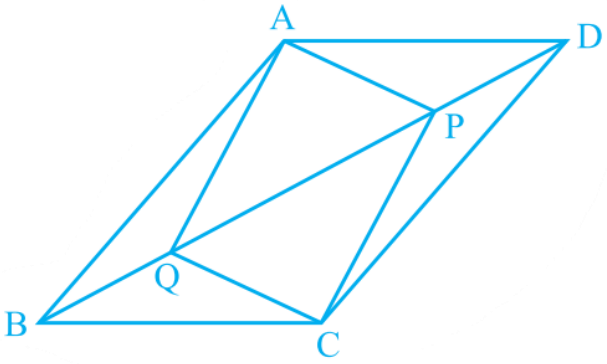
Date: 13/11/23 GRADE: IX	MONTHLY TEST -02(2023-24) MATHEMATICS	Max marks: 20 Time: 50 Minutes

General Instructions:

1. There are 10 questions in the question paper. All questions are compulsory.
2. The question paper has 4 sections A, B, C and D.
3. Section A has 5 MCQs carrying 1 mark each.
4. Section B has 2 VERT SHORT ANSWER TYPE QUESTIONS carrying 2 marks each.
5. Section C has 2 SHORT ANSWER TYPE QUESTIONS carrying 3 marks each.
6. Section D has 1 LONG ANSWER TYPE QUESTION carrying 5 marks.

Qn No	SECTION A MULTIPLE CHOICE QUESTIONS	Marks Allocated
1	In ΔABC and ΔPQR three equality relations between same parts are as follows: AB=QP, <B=<P and BC=PR. State which of the following congruence rule applies here a) SSS b) SAS c) ASA d) RHS	1
2	If ΔABC≅ ΔPQR and ΔABC is not congruent to ΔRPQ, which of the following is **not** true? a) BC=PQ b) AB=PQ c) AC=PR d) QR=BC	1
3	If all the three angles of a triangle are equal, then each one of them is equal to a) 90^0 b) 45^0 c) 60^0 d) 30^0	1

4	If the diagonals of a parallelogram are equal then it is a a) Trapezium b) Kite c) Rectangle d) Rhombus	1
5	Which of the following is the necessary condition for a quadrilateral to be a parallelogram? (a) Diagonals bisect each other. (b) Opposite angles are equal. (c) Opposite sides are equal and parallel to each other. (d) All of the above	1
	SECTION B **VERY SHORT ANSWER TYPE QUESTIONS**	
6	ABC and DBC are two isosceles triangles on the same base BC. Show that ∠ABD = ∠ACD.  	2
7	Prove that a diagonal of a parallelogram divides it into two congruent triangles.	2
	SECTION C **SHORT ANSWER TYPE QUESTIONS**	
8	AB is a line segment. C and D are points on opposite side of AB such that each of them is equidistant from the points A and B. Show that line CD is the perpendicular bisector of AB.  	3

9	State and prove The mid-point theorem.	3
	SECTION D **LONG ANSWER TYPE QUESTION**	
10	In parallelogram ABCD, two points P and Q are taken on diagonal BD such that DP = BQ. Show that: (i) Δ APD ≅ Δ CQB (ii) AP = CQ (iii) Δ AQB ≅Δ CPD (iv) AQ = CP (v) APCQ is a parallelogram 	5
	THE END	