



**INDIAN SCHOOL SOHAR**  
**PERIODIC TEST II (2022-2023)**  
**MATHEMATICS**

**CLASS: VII**  
**DATE: 17/01/2023**

**MAX. MARKS: 20**  
**TIME: 40 MINUTES**

**General Instructions:**

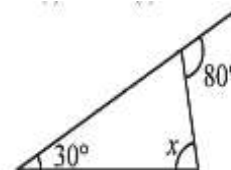
1. This Question Paper has 3 Sections A-C.
2. Section **A** has 5 MCQs carrying 1 mark each.
3. Section **B** has 3 questions carrying 2 marks each.
4. Section **C** has 3 questions carrying 3 marks each.
5. All Questions are compulsory. However, an internal choice in one question of 1 mark, one question of 2 marks and one question of 3 marks has been provided.
6. Draw neat figures wherever required.

**SECTION A**

(1 Mark)

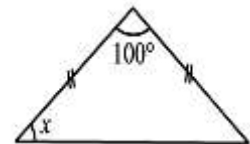
1. Find the value of  $x$  in the given figure.

- (A)  $80^\circ$                       (B)  $30^\circ$                       (C)  $50^\circ$                       (D)  $110^\circ$

**OR**

Find the value of  $x$  in the given figure.

- (A)  $180^\circ$                       (B)  $100^\circ$                       (C)  $80^\circ$                       (D)  $40^\circ$



2. If the two interior opposite angles of the exterior angle of a triangle measure  $50^\circ$  and  $60^\circ$ , find the measure of the exterior angle.

- (A)  $110^\circ$                       (B)  $130^\circ$                       (C)  $120^\circ$                       (D)  $70^\circ$

3. If  $\triangle CAB \cong \triangle FED$ , which among the following is true?

- (A)  $\angle C = \angle E$                       (B)  $AB = ED$                       (C)  $AB = FE$                       (D)  $\angle B = \angle F$

4. What is the angle included between the sides  $PN$  and  $PM$  of  $\triangle MNP$ ?

- (A)  $\angle N$                       (B)  $\angle M$                       (C)  $\angle P$                       (D)  $NM$

5. Which of the following could be the possible measures of the angles of a triangle?

- (A)  $50^\circ, 60^\circ, 70^\circ$                       (B)  $50^\circ, 50^\circ, 60^\circ$   
 (C)  $45^\circ, 45^\circ, 80^\circ$                       (D)  $60^\circ, 30^\circ, 95^\circ$

**SECTION B**

(2 Marks)

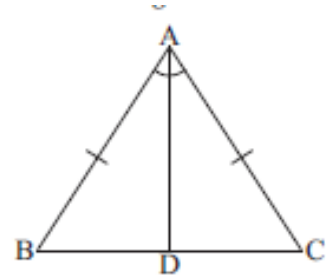
6. Determine whether 17 cm, 8 cm and 15 cm can be the sides of a right-angled triangle.

7. One of the angles of a triangle is  $40^\circ$  and the other two angles are equal in measure. Find the measure of each of the equal angles.

OR

The three angles of a triangle are in the ratio 2:3:5. Find the measure of all the angles of the triangle.

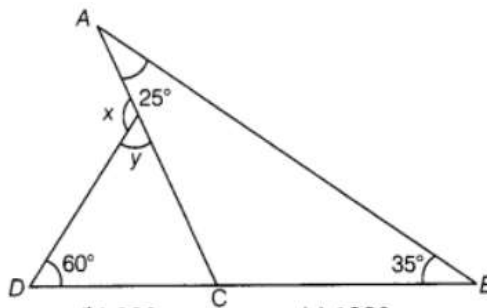
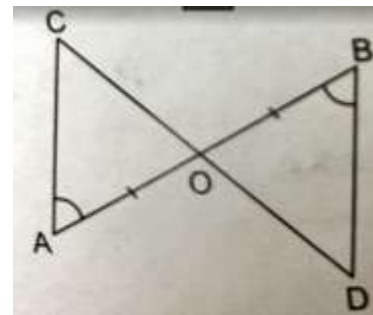
8. In the given figure  $AB = AC$  and  $AD$  is the bisector of  $\angle BAC$ . Prove that  $\triangle ADB \cong \triangle ADC$ . Give reasons.



**SECTION C**

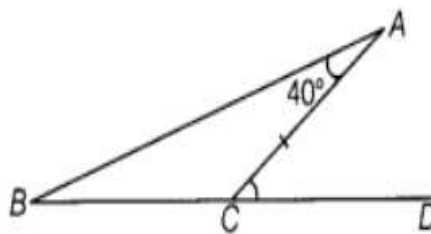
(3 Marks)

9. Find the area of the rectangle whose length is 15 cm and diagonal is 17 cm.
10. In the given figure prove that  $\triangle AOC \cong \triangle BOD$ . Give reasons. Is  $AC = BD$ ? Give reason.
11. Find the value of  $x$  and  $y$  in the figure given below.



OR

In the given figure  $BC = CA$  and  $\angle A = 40^\circ$ . Find the measure of  $\angle ACD$ .



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6. Draw neat figures wherever required.

**SECTION A**

(1 Mark)

1. What is the angle included between the sides PN and MN of  $\triangle MNP$ ?  
 (A)  $\angle N$                       (B)  $\angle M$                       (C)  $\angle P$                       (D) NM
2. Which of the following could be the possible measures of the angles of a triangle?  
 (A)  $60^\circ, 30^\circ, 95^\circ$                       (B)  $50^\circ, 50^\circ, 60^\circ$   
 (C)  $45^\circ, 45^\circ, 80^\circ$                       (D)  $50^\circ, 60^\circ, 70^\circ$
3. If  $\triangle FED \cong \triangle CAB$ , which among the following is true?  
 (A)  $\angle E = \angle C$                       (B)  $ED = AB$                       (C)  $FE = AB$                       (D)  $\angle F = \angle B$

4. Find the value of x in the given figure.

- (A)  $30^\circ$                       (B)  $80^\circ$                       (C)  $50^\circ$                       (D)  $110^\circ$

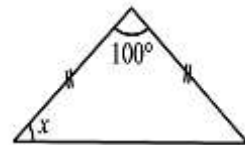
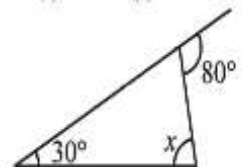
**OR**

Find the value of x in the given figure.

- (A)  $180^\circ$                       (B)  $100^\circ$                       (C)  $80^\circ$                       (D)  $40^\circ$

5. If the two interior opposite angles of the exterior angle of a triangle measure  $50^\circ$  and  $60^\circ$ , find the measure of the exterior angle.

- (A)  $120^\circ$                       (B)  $130^\circ$                       (C)  $110^\circ$                       (D)  $70^\circ$

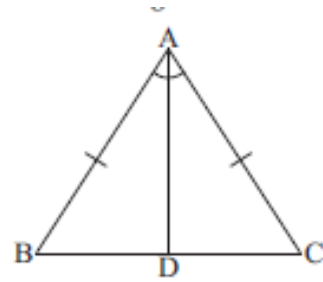


**SECTION B**

(2 Marks)

6. Determine whether 12 cm, 5 cm and 13 cm can be the sides of a right-angled triangle.

7. In the given figure  $AB = AC$  and  $AD$  is the bisector of  $\angle BAC$ .  
Prove that  $\triangle ADB \cong \triangle ADC$ . Give reasons.



8. The three angles of a triangle are in the ratio 3:2:5. Find the measure of all the angles of the triangle.

OR

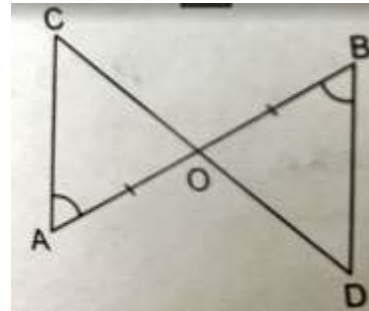
One of the angles of a triangle is  $80^\circ$  and the other two angles are equal in measure. Find the measure of each of the equal angles.

**SECTION C**

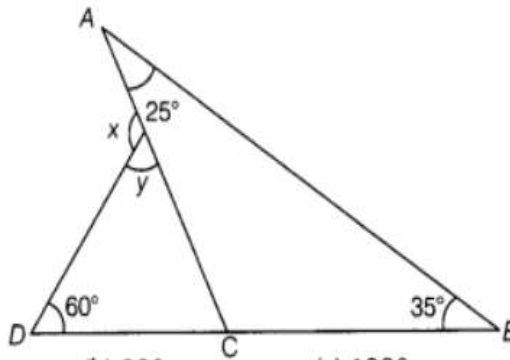
(3 Marks)

9. Find the area of the rectangle whose length is 15 cm and diagonal is 17 cm.

10. In the given figure prove that  $\triangle AOC \cong \triangle BOD$ . Give reasons.  
Is  $AC = BD$ ? Give reason.

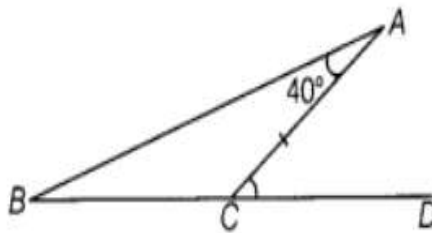


11. Find the value of  $x$  and  $y$  in the figure given below.



OR

In the given figure  $BC = CA$  and  $\angle A = 40^\circ$ . Find the measure of  $\angle ACD$ .



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