



**INDIAN SCHOOL SOHAR**  
**PERIODIC TEST II (2023-24)**  
**MATHEMATICS**

CLASS: VII

DATE: /01/2024

MAX. MARKS: 20

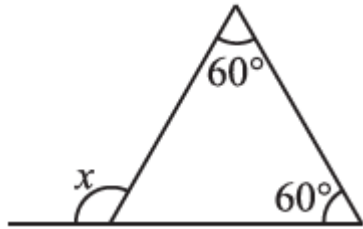
TIME: 40 MINUTES

**General Instructions:**

1. This question paper contains four sections A, B, C and D. Each section is compulsory.  
However, there are internal choices in some questions.
2. Section A has 4 MCQs and 1 Assertion-Reason based question of 1 mark each.
3. Section B has 2 Very Short Answer (VSA)-type questions of 2 marks each.
4. Section C has 2 Short Answer (SA)-type questions of 3 marks each.
5. Section D has 1 Long Answer (LA)-type question of 5 marks.

**SECTION – A**

[This section comprises of multiple choice questions (MCQ) of 1 mark each]

1.	If 65% of students in class VII have a bicycle, then the percentage of the students who do not have bicycles will be: a) 55%                      b) 45%                      c) 35%                      d) 65%
2.	The fraction form of 60% is: a) $\frac{3}{5}$ b) $\frac{5}{7}$ c) $\frac{3}{7}$ d) $\frac{5}{3}$
3.	Which of the following triplets <b>cannot</b> be the angles of a triangle? a) 67°, 51°, 62°              b) 70°, 83°, 27°              c) 90°, 70°, 20°              d) 40°, 132°, 18°
4.	Find the value of $x$ in the given figure: a) 120°                      b) 100° c) 90°                      d) 60°
	
5.	A statement of Assertion is followed by a statement of Reason. Choose the correct option. <b>Assertion:</b> $3^2 + 4^2 = 5^2$ <b>Reason:</b> In a right triangle, the square of the hypotenuse is always equal to the sum of the squares of the other two sides. a) Both <b>Assertion</b> and <b>Reason</b> are true and <b>Reason</b> is the correct explanation for <b>Assertion</b> . b) Both <b>Assertion</b> and <b>Reason</b> are true but <b>Reason</b> is not the correct explanation for <b>Assertion</b> . c) <b>Assertion</b> is true but <b>Reason</b> is false. d) <b>Assertion</b> is false but <b>Reason</b> is true.

**SECTION – B**

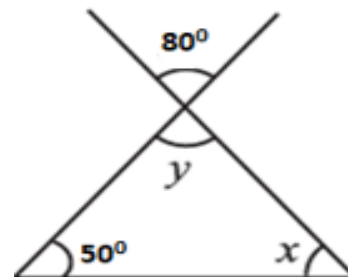
[This section comprises of very short answer type questions (VSA) of 2 marks each]

6. Rajdhani College has 2400 students, 40% of whom are girls. How many boys are there in the college?

**OR**

Convert 75% to decimal number and also to fraction in the simplest form.

7. Find the value of  $x$  and  $y$  in the given figure:  
Give reasons.



**SECTION – C**

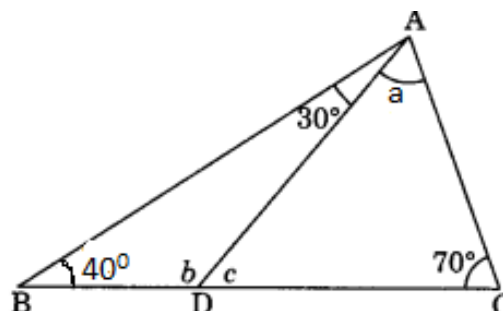
[This section comprises of short answer type questions (SA) of 3 marks each]

8. (a) Find 15% of 2500  
(b) convert the ratio 2 : 3 : 5 into percentage.

9. A tree is broken at a height of 12 m from the ground and its top touches the ground at a distance of 9 m from the base of the tree. Find the original height of the tree.

**OR**

Find the values of  $a$ ,  $b$  and  $c$  in the give figure:  
Give reasons.



**SECTION – D**

[This section comprises of long answer type question (LA) of 5 marks]

10. (a) Find the simple interest and amount when, Principal = ₹16000, Rate of Interest = 5% per annum and Time = 3 years.  
(b) Asha bought a saree for ₹4000 and sold it for ₹4400. Find the gain percentage.

**OR**

(a) What rate gives ₹900 as interest on a sum of ₹4500 in 2 years and also find the amount to be paid at the end of the second year.  
(b) Juhi bought a dress for ₹4000 and sold it for ₹3600. Find the loss percentage.

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