



INDIAN SCHOOL SALALAH

ACADEMIC YEAR 2026 – 2027

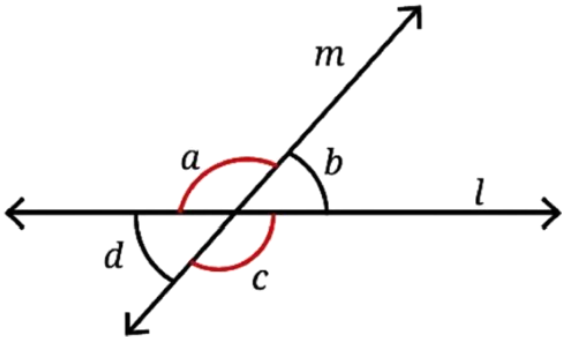


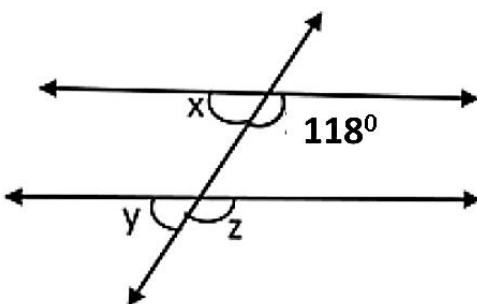
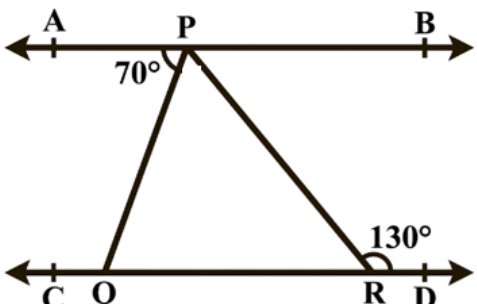
Roll No:					Assessment Type: FIRST TERM EXAMINATION SEPTEMBER - 2026
Grade: VII					Maximum Marks 80
Subject: Mathematics					
Date of Assessment: 27/09/2026					Time: 3 Hours

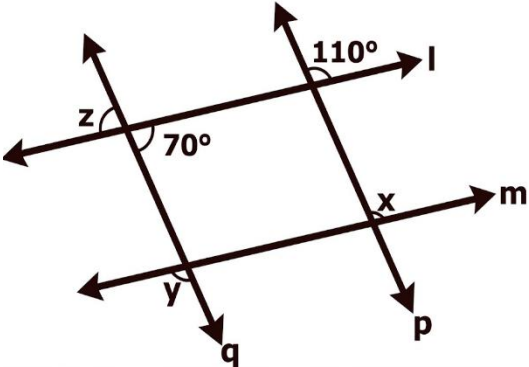
General Instructions:

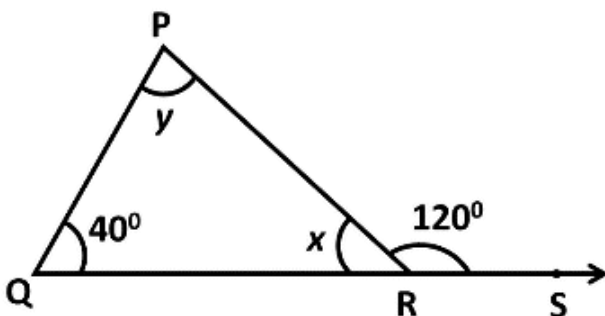
- This question paper contains 33 questions in 6 pages.
- Marks are indicated against each question.

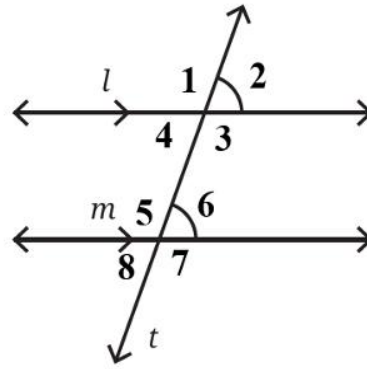
S.No	SECTION - A	Marks
1	Simplify: $15 - 3 \times 2 + 4$ (a) 16 (b) 13 (c) 25 (d) 7	1
2	An algebraic expression for "5 more than twice a number x" is: (a) $2x + 5$ (b) $5x + 2$ (c) $2(x + 5)$ (d) $\frac{x}{2} + 5$	1
3	Which of the following best describes parallel lines? (a) Lines that intersect at one point (b) Lines that never meet and are always the same distance apart (c) Lines that intersect at right angles (d) Lines that overlap completely	1
4	What is the sum of two odd numbers? (a) Always even (b) Always odd (c) Always prime (d) Cannot be determined	1
5	The sum of the three interior angles of a triangle is always: (a) 90° (b) 180° (c) 270° (d) 360°	1
6	Simplify: $(8 + 2) \times 3 - 5$ (a) 19 (b) 31 (c) 13 (d) 25	1

7	If $x = 4$, the value of $3x + 7$ is: (a) 15 (b) 21 (c) 12 (d) 19	1
8	Two lines that intersect each other at right angles are called: (a) Parallel lines (b) Intersecting lines (c) Perpendicular lines (d) Transversal lines	1
9	What is the parity of (723×519) ? (a) Even (b) Odd (c) Prime (d) Neither even nor odd	1
10	A triangle can have: (a) Two right angles (b) At most one right angle (c) Three right angles (d) No angle less than 90°	1
	SECTION - B	
11	Simplify: $24 \div 4 + (6 - 2) \times 3$	2
12	Simplify the algebraic expressions by combining like terms. $7x - 19y - 3x + 11y$	2
13	In the adjoining figure, if $\angle a = 110^\circ$, find $\angle b$, $\angle c$ and $\angle d$. 	2
14	What is the parity of the sum of numbers from 1 to 100?	2
15	Write the next 4 numbers in the sequence: 1,2,3,5,8,13,21.	2

16	Find the third angle of the triangle if two angles are 58° and 62° .	2
17	Look at the picture below. It is a pattern using bold lines. Identify the pattern.  a) Write an algebraic expression representing this pattern? b) How many lines will be used in step 6?	2
SECTION - C		
18	A student solves 21 problems every day and 7 extra problems on the last day. Write an expression for 12 days.	3
19	i) Mind the Mistake, Mend the Mistake a) If $k = 15$, $p = 3$ then $k - (7 - p) = 4$. OR ii) b) Subtract the expressions $15x - 6y + 10$ from $7x - 9y + 15$	3
20	Find the missing angles marked for the given sets of parallel lines. 	3
21	Construct a magic square if the Centre number is 35.	3
22	Determine whether a triangle can be constructed using side lengths 15cm, 13cm, 35cm. Explain your answer.	3
23	If $AB \parallel CD$, $\angle APQ = 70^\circ$ and $\angle PRD = 130^\circ$, find $\angle QPR$, $\angle BPR$ and $\angle PQR$. 	3

24	Ritesh has an even number of ₹1 coins, an odd number of ₹10 coins, and an odd number of ₹5 coins in her piggy bank. He calculated the total and got ₹329. Did he make a mistake? If he did, explain why.	3									
25	A metro train ticket between two stations is ₹60 for an adult and ₹30 for a child. What is the total cost of tickets: (i) for four adults and three children? (ii) for two groups having three adults each?	3									
SECTION - D											
26	a) Given $54 \times 18 = 972$, find 64×18 . b) Use distributive property to evaluate: 105×15	4									
27	A 3×3 magic square is to be made using the numbers 21 to 29 exactly once. a) What must the Centre number be? b) Find the magic sum. c) Construct magic square using 21 to 29.	4									
28	Find the value of x , y and z in the given figure, if $l \parallel m$ and $p \parallel q$. 	4									
29	i) a) Solve this cryptarithm: <table border="1" data-bbox="715 1552 1112 1951"> <tr> <td></td><td>A</td><td>B</td></tr> <tr> <td>+</td><td>A</td><td>1</td></tr> <tr> <td>D</td><td>C</td><td>C</td></tr> </table> b) Write generalize form of 3×3 magic square.		A	B	+	A	1	D	C	C	4
	A	B									
+	A	1									
D	C	C									

	OR ii) An electric fan in a classroom starts in the OFF position. Rahul toggles the speed switch a total of 150 times, while Priya comes and toggles it another 43 times. a) Find the total number of times the switch was toggled. b) State whether the final state of the fan will be ON or OFF.	
30	a) In the following figure, find the values of x and y.  b) Is it possible to construct a triangle if all its angles are equal to 70 degrees.	4
31	a) Priya earns ₹35,000 per month. She spends ₹10,000 on rent, ₹7,000 on food and ₹5,000 on other expenses every month. What is the amount Priya will save by end of a month? b) Compare the pairs of expressions using $<$, $>$ or $=$ i) $345 + 125$ ____ $359 + 115$ ii) $594 - 73$ ____ $579 - 54$	4
32	Construct a triangle ABC with $BC = 6\text{cm}$, $AB = 7\text{cm}$, $CA = 5\text{cm}$. Also Construct an altitude from A to BC.	4
	SECTION - E (Case Study Based Question — 4 Marks)	
33	Traffic Junction & Signals At a busy traffic junction, two parallel roads are crossed by a slant road (transversal). The traffic police place digital signals at the junction angles. One of the angles formed is 75°. The design ensures equal alternate interior angles for safe road crossing.	



a) Identify $\angle 1$ and $\angle 5$ in the figure.

1

b) If $\angle 3 = 75^\circ$, find $\angle 6$.

1

c) What is the vertically opposite angle to $\angle 4$?

1

d) Identify $\angle 4$ and $\angle 6$ in the figure.

1
