



INDIAN SCHOOL SALALAH

ACADEMIC YEAR 2026 – 2027

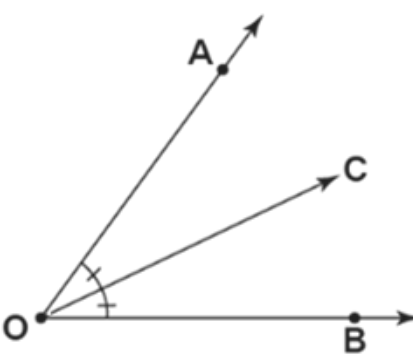


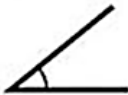
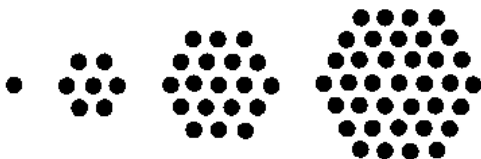
Roll No:					Assessment Type: FIRST TERM EXAMINATION SEPTEMBER - 2026
Grade: VI					Maximum Marks 80
Subject: MATHEMATICS					
Date of Assessment: 17/09/2026					Time: 3 Hours

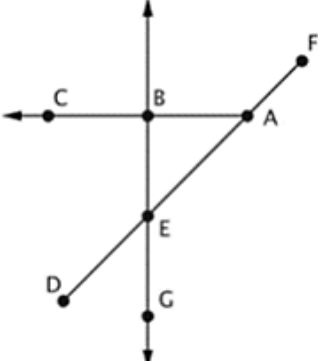
General Instructions:

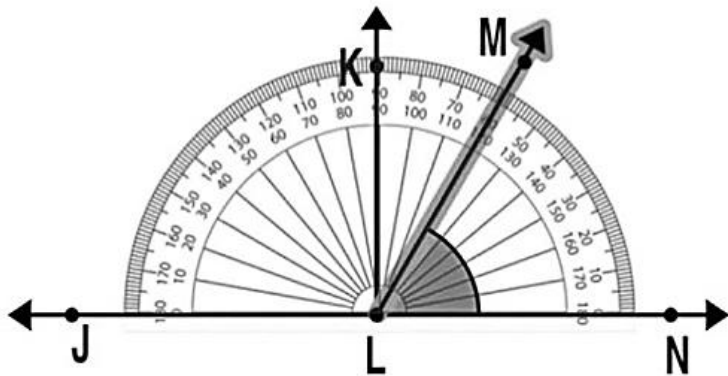
- This question paper contains 33 questions in 7 pages.
- Marks are indicated against each question.
- Section A contains 10 questions (MCQ) of 1 mark each. Section B contains 7 questions of 2 marks each. Section C contains 8 questions of 3 marks each. Section D contains 7 questions of 4 marks each and Section E contains 1 case study question of 4 marks.
- Internal choices have been provided in Section C and Section D. You have to attempt only one of the choices in such questions.

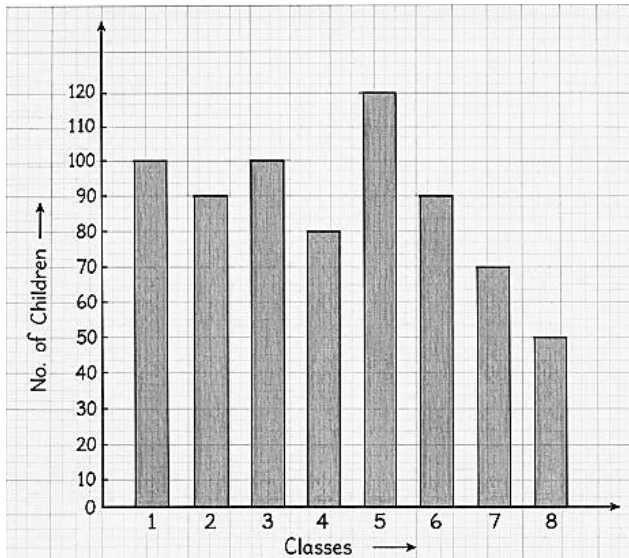
S.No	SECTION A	Marks						
1.	How many sides does a pentagon have? a) 6 b) 5 c) 8 d) 7	1						
2.	What is the measure of a right angle? a) 90° b) 180° c) 360° d) Less than 90°	1						
3.	How many super cells are there in the given grid? <table border="1" data-bbox="443 1608 865 1736"><tr><td>256</td><td>265</td><td>198</td></tr><tr><td>345</td><td>236</td><td>232</td></tr></table> a) 1 b) 2 c) 3 d) 4	256	265	198	345	236	232	1
256	265	198						
345	236	232						
4.	Which of the following numbers is both a triangular number and an even number? a) 4 b) 6 c) 8 d) 12	1						

5.	In a pictograph,  represents 5 books. How many books are represented by 4  ? a) 10 b) 9 c) 40 d) 20	1
6.	On a number line 2005, would be exactly between a) 2000 and 3000 b) 1000 and 2000 c) 2000 and 2010 d) 2000 and 2500	1
7.	The prime factorization of 36 is: a) 9×4 b) $3 \times 3 \times 4$ c) 12×3 d) $3 \times 3 \times 2 \times 2$	1
8.	The number represented by the given tally mark is:  a) 7 b) 3 c) 12 d) 22	1
9.	How many lines can pass through two given points? a) 2 b) 1 c) infinite d) 10	1
10.	The smallest 2-digit prime number is: a) 10 b) 11 c) 13 d) 12	1
SECTION B		
11.	Observe the number pattern and answer the following questions. 350, 345, 340, 335, 330, ... a) What rule does the pattern follow? b) Write the next 4 numbers of the pattern.	2
12.	A date such as 12-02-2021 is called a palindromic date because it reads the same forwards and backwards. Find any two palindromic dates from the past, similar to 12-02-2021.	2
13.	a) Ray OC is the angle bisector of $\angle AOB$. If $\angle AOB = 80^\circ$, what is the measure of $\angle AOC$? 	2

	b) The measure of a quarter turn = $\frac{1}{2}$ of _____ = _____.	
14.	Every morning, a beekeeper checks how many bees have hatched in her hive. On the first day, she counts 16 new bees. Each day after that, 12 more bees hatch than the day before. Write down the number of new bees that hatch on the first five days.	2
15.	Check whether 24 and 45 are coprime numbers or not. Show all the steps.	2
16.	The time shown on a digital clock is 11:11. a) What is the next palindromic time after 11:11? b) How many minutes will it take to reach that time?	2
17.	Classify these angles as acute, right, obtuse or reflex angles. a.  b.  c.  d. 	2
	SECTION C	
18.	a) Write True or False i) Every Prime number is even. ii) Composite numbers have only two factors. b) What is the smallest number whose prime factorisation has four different prime numbers? c) Write any two pairs of twin prime numbers less than 30.	3
19.	i) Observe the following number patterns. Name the pattern and write the next two terms. a) 1, 4, 9, 16, _____, _____. b) 1, 2, 4, 8, _____, _____. OR ii) Look carefully at the dot patterns.  a) What is the name of this sequence?	3

	b) Write the number sequence represented by the dot patterns. c) What is the next term in the sequence?																						
20.	a) Draw an angle of 130° using a protractor. Label it as $\angle PQR$. b) Write the vertex and arms of the angle.	3																					
21.	a) Write any two 2-digit numbers whose digit sum is 13. b) Which is the smallest 2-digit number whose sum of digits is 13? c) Find the greatest 4-digit number whose sum of digits is 13.	3																					
22.	Use the figure and name the following a) Any two rays. b) Any two angles. c) Any two-line segments. 	3																					
23.	The table below shows the number of visitors to a park on different days. Draw a Pictograph to represent the data. Use ☺ symbol = 50 visitors. <table border="1" data-bbox="474 1158 1054 1597"><thead><tr><th>Day</th><th>Number of visitors</th></tr></thead><tbody><tr><td>Monday</td><td>200</td></tr><tr><td>Tuesday</td><td>300</td></tr><tr><td>Wednesday</td><td>250</td></tr><tr><td>Thursday</td><td>400</td></tr><tr><td>Friday</td><td>350</td></tr></tbody></table>	Day	Number of visitors	Monday	200	Tuesday	300	Wednesday	250	Thursday	400	Friday	350	3									
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Monday	200																						
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24.	The favourite colours of 21 students in a class were recorded as follows: <table border="1" data-bbox="229 1711 1259 1946"><tbody><tr><td>Red</td><td>Blue</td><td>Yellow</td><td>Red</td><td>Blue</td><td>Red</td><td>Blue</td></tr><tr><td>Blue</td><td>Yellow</td><td>Red</td><td>Red</td><td>Yellow</td><td>Yellow</td><td>Blue</td></tr><tr><td>Yellow</td><td>Red</td><td>Blue</td><td>Yellow</td><td>Red</td><td>Yellow</td><td>Red</td></tr></tbody></table> Prepare a frequency distribution table for the given data.	Red	Blue	Yellow	Red	Blue	Red	Blue	Blue	Yellow	Red	Red	Yellow	Yellow	Blue	Yellow	Red	Blue	Yellow	Red	Yellow	Red	3
Red	Blue	Yellow	Red	Blue	Red	Blue																	
Blue	Yellow	Red	Red	Yellow	Yellow	Blue																	
Yellow	Red	Blue	Yellow	Red	Yellow	Red																	

25.	a) Find the double of the greatest single-digit prime number. b) Write seven consecutive composite numbers less than 100. c) A perfect number is a number for which the sum of all its factors is twice the number. Find the perfect number less than 10.	3
SECTION D		
26.	a) Give an example of a 2-digit number that is both a triangular number and a square number. b) Explain why the number is both a triangular number and a square number. c) Illustrate the number as both a triangular number and a square number using dots.	4
27.	a) Find the degree measure of $\angle JLK$, $\angle KLM$, $\angle JLM$ and $\angle MLN$.  b) What is the measure of the angle between the hour hand and the minute hand of a clock at 4 o'clock? c) What type of angle is it?	4
28.	a) The prime factorisation of a number contains one 3, two 2's and one 13. What is the number? b) Find the first four multiples of 20 and 15. c) Using the divisibility tests, determine whether 632 is divisible by 5 and by 4. Show the test used in each case.	4
29.	i) a) Write the greatest and smallest 4-digit number formed, using the digits 8, 0, 4 and 5. b) Find the sum and difference of the greatest and smallest number formed. c) Write the greatest 4-digit number whose digit sum is 29.	4

	OR ii) Aarav chooses the number 2178 and applies Kaprekar routine. a) Arrange the digits of 2178 in descending and ascending order. b) Find the difference between the two numbers. c) Repeat the process until you reach 6174. How many steps does it take 2178 to reach 6174?	
30.	a) How many times does the digit 4 appear when writing all the natural numbers from 1 to 100? b) Find the palindromic number derived from 75 using reverse and add method. Show all the steps. c) Find the difference between the largest 4-digit palindromic number and the smallest 4-digit palindromic number. d) Is the difference also a palindrome?	4
31.	a) Write the Virahanka number sequence up to the first six terms. b) Which sequence is formed when you add up the counting numbers? Write the steps. c) What is the 5th term of the sequence?	4
32.	Read the bar graph and answer the following questions  a) Which class has the maximum number of children? b) How many more children are there in Class 5 than Class 8? c) How many children are there in Class 2 and Class 7 altogether? d) Which classes have less than 80 children?	4

	SECTION E (Case study Question)	
33.	During a collaborative Mathematics activity, Aarav and Priya were paired to solve a number puzzle. Their teacher gave them six numbered tiles: 13, 18, 21, 25, 31 and 36. They were asked to observe the properties and patterns of these numbers and use their observations to answer the following questions.  a) Which of the given numbers are prime numbers? 1 b) Which number has exactly three distinct factors? Write all its factors. 1 c) Write all the factors of 21. 1 d) Find two numbers from the given set whose sum is 57. 1	
