



INDIAN SCHOOL SALALAH

FIRST TERM EXAMINATION – SEPTEMBER 2025-26



Class: VI

MATHEMATICS (041)

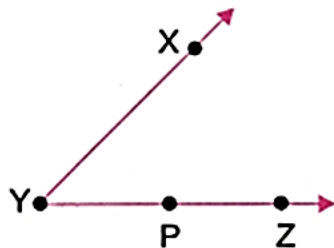
Date:23/09/2025

Time: 3 hours

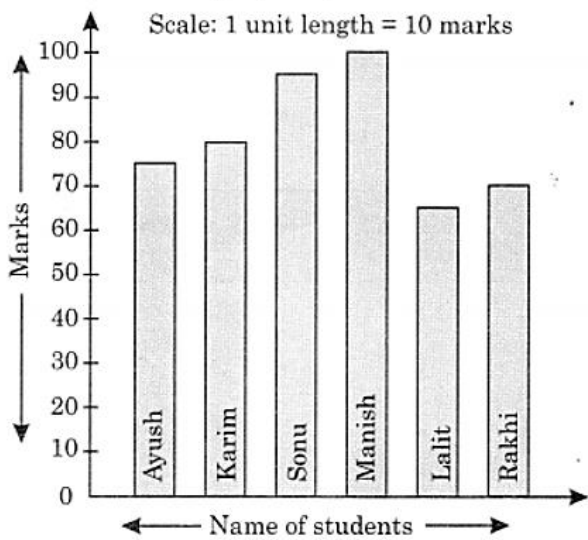
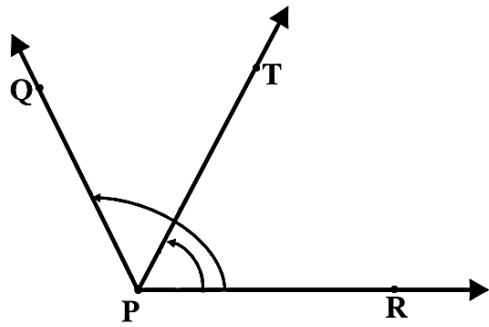
Maximum Marks: 80

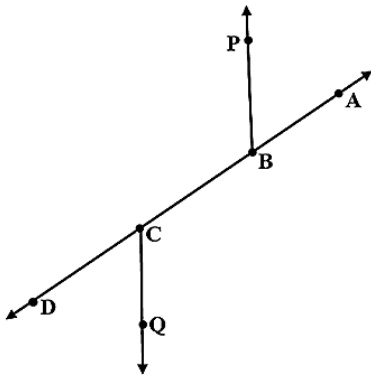
General Instructions:

- All questions are compulsory.
- This question paper consists of 30 questions divided into 4 sections.
- Section A contains 6 questions of 1 mark each. Section B contains 6 questions of 2 marks each.
Section C contains 10 questions of 3 marks each. Section D contains 8 questions of 4 marks each.

NO	SECTION A	MARKS
1	Which of the following is both a square number and a triangular number? a) 9 b) 16 c) 25 d) 36	1
2	A line segment has _____ end points. a) 1 b) 2 c) Zero d) Many	1
3	At a science fair, students display their project scores in a row. Which score is a supercell? 56 89 72 45 a) 56 b) 89 c) 72 d) 45	1
4	In shape sequences, how are regular polygons related to number sequences? a) They follow even numbers. b) They follow triangular numbers. c) The number of sides increases as counting numbers starting from 3. d) The number of angles decreases.	1
5	In the given figure, $\angle XYZ$ cannot be written as a) $\angle Y$ b) $\angle ZYX$ c) $\angle ZXY$ d) $\angle XYP$ 	1
6	Which of the following numbers is a prime number? a) 21 b) 33 c) 42 d) 31	1

	SECTION B																					
7	Change 76 into palindromic number using reverse and add method.	2																				
8	Following pictograph shows the number of students of four different sections of Class VI. Observe the pictograph and answer the following questions. <table><tr><th>Classes</th><th>Number of students</th><th> = 10 boys</th><th> = 10 girls</th></tr><tr><td>VIA</td><td>    </td><td></td><td></td></tr><tr><td>VIB</td><td>    </td><td></td><td></td></tr><tr><td>VIC</td><td>    </td><td></td><td></td></tr><tr><td>VID</td><td>    </td><td></td><td></td></tr></table> a) How many students are there in Class VI B? b) Which section has maximum number of girls? c) Which section has minimum number of boys? d) How many more girls are there in Class VI A than VI C?	Classes	Number of students	 = 10 boys	 = 10 girls	VIA	    			VIB	    			VIC	    			VID	    			2
Classes	Number of students	 = 10 boys	 = 10 girls																			
VIA	    																					
VIB	    																					
VIC	    																					
VID	    																					
9	Find all multiples of 60 that lie between 200 and 450.	2																				
10	Sohan is arranging the numbers 6000, 6100, 6200, 6300,.....on the number line. a) Write the next two numbers that come after 6300 on the number line. b) If he places 6800 on the same number line, between which two numbers will it lie?	2																				
11	a) In a pictograph, if one symbol represents 15 flowers, then how many symbols are used to represent 120 flowers? b) An observation occurring seven times in a data is represented as _____ using tally marks.	2																				
12	The number of vehicles owned individually by each of 20 families are listed below. Make a table using tally marks. <table><tr><td>2</td><td>2</td><td>1</td><td>2</td><td>2</td><td>1</td><td>3</td><td>2</td><td>4</td><td>1</td><td>3</td><td>4</td><td>3</td><td>2</td><td>1</td><td>4</td><td>2</td><td>2</td><td>1</td><td>3</td></tr></table>	2	2	1	2	2	1	3	2	4	1	3	4	3	2	1	4	2	2	1	3	2
2	2	1	2	2	1	3	2	4	1	3	4	3	2	1	4	2	2	1	3			
	SECTION C																					
13	a) Write any two numbers whose digit sum is 12. b) What is the smallest number whose digit sum is 12? c) Write the largest 5 - digit number whose digit sum is 12.	3																				

14	The number of visitors to an exhibition over six days in a week is shown below. <table><tr><td>Day</td><td>Sunday</td><td>Monday</td><td>Tuesday</td><td>Wednesday</td><td>Thursday</td><td>Friday</td></tr><tr><td>Number of Visitors</td><td>300</td><td>400</td><td>450</td><td>100</td><td>200</td><td>550</td></tr></table> Prepare a pictograph using one symbol  to represent 100 visitors.	Day	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Number of Visitors	300	400	450	100	200	550	3
Day	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday										
Number of Visitors	300	400	450	100	200	550										
15	Observe the following pattern and answer the following questions: 1, 3, 6, 10, 15, ... a) What is the name of the pattern? b) Write the pattern rule for the given pattern. c) Write the next three numbers in the pattern.	3														
16	Read the bar graph and answer the following questions. a) What information is given in the bar graph? b) Who scored highest marks? c) How many more marks are scored by Ayush than Lalit? 	3														
17	Draw a rough figure for each of the following and label the points correctly. a) $\overleftrightarrow{CA}$ and $\overleftrightarrow{PB}$ meet at O. b) Line m contains points P and Q but not R. c) Point M lies on $\overleftrightarrow{AB}$.	3														
18	a) Classify the following angles as acute, obtuse, straight or reflex. 100°, 180°, 290°, 88°. b) Find the degree measures of $\angle RPT$ and $\angle RPQ$ in the given figure. 	3														

19	a) What is the smallest number whose prime factorization has four different prime numbers? b) What are twin primes? Give two examples of twin primes.	3
20	Sara's fish tank is leaking. At 6:00 p.m., the tank contains 21 litres of water. At 7:00 p.m., it has 18 litres and at 8:00 p.m., it has 15 litres. a) How many litres of water leak out each hour? b) How many litres of water remain in the tank at 10 p.m.? c) How many hours will it take for all the water to leak out?	3
21	Find the common factors of 27 and 36.	3
22	Are the numbers 81 and 56 co-primes? Use prime factorisation to verify your answer.	3
SECTION D		
23	Using the given figure, name the following. a) Three points b) A line c) Two-line segments d) Two rays 	4
24	A honeycomb follows a beautiful pattern. If the first row has 1 cell, the second row has 7 cells, and the third has 19 cells, how many cells will be there in the fourth row and fifth row? Observe the pattern below and answer the following. a) Complete the pattern. • 1st row = 1 • 2nd row = $1 + 6 = 7$ • 3rd row = $7 + 12 = 19$ • 4th row = _____ • 5th row = _____ b) Name the pattern. c) What is the rule for forming the numbers in the pattern?	4
25	a) Use a protractor to draw angles having the following degree measures. i) 150° ii) 64° b) What will be the measure of angle between the hands of a clock at 5'o clock? c) The measure of a quarter turn is _____.	4

26	Use the first five terms in the pattern and then write the next term. Also write the name of the pattern. a) 1, 3, 5, 7, 9, ____ b) 1, 2, 3, 5, 8, ____ c) 1, 3, 9, 27, 81, ____ d) 1, 2, 3, 4, 5, ____	4												
27	How many rounds does the number 2314 take to reach the Kaprekar constant (6174)?. Write all the steps.	4												
28	A survey of 120 school students was conducted to find out the activity they prefer to do in their free time. <table border="1"><thead><tr><th>Preferred activity</th><th>Number of students</th></tr></thead><tbody><tr><td>Playing</td><td>45</td></tr><tr><td>Reading storybooks</td><td>30</td></tr><tr><td>Watching T V</td><td>20</td></tr><tr><td>Listening to music</td><td>10</td></tr><tr><td>Painting</td><td>15</td></tr></tbody></table> a) Draw a bar graph to illustrate the above data taking appropriate scale. b) Which activity is preferred by most students other than playing?	Preferred activity	Number of students	Playing	45	Reading storybooks	30	Watching T V	20	Listening to music	10	Painting	15	4
Preferred activity	Number of students													
Playing	45													
Reading storybooks	30													
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Listening to music	10													
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29	Using divisibility tests check whether 56780 is divisible by 2, 4, 5 and 8. Give reason.	4												
30	We are the group of 5- digit numbers between 30,000 and 70,000 such that all our digits are even. a) Which is the largest number in our group? b) Which is the smallest number in our group? c) Which number in our group is closest to 50,000? d) Which number in our group is a palindrome with same digits and closest to 40000?	4												
