



INDIAN SCHOOL SALALAH

SECOND TERM EXAMINATION – FEBRUARY – MARCH 2023



MATHEMATICS

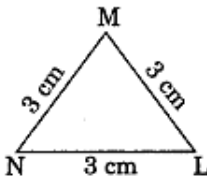
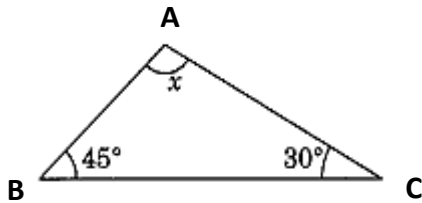
Class: VII

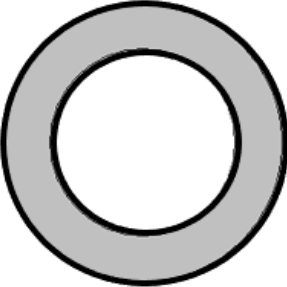
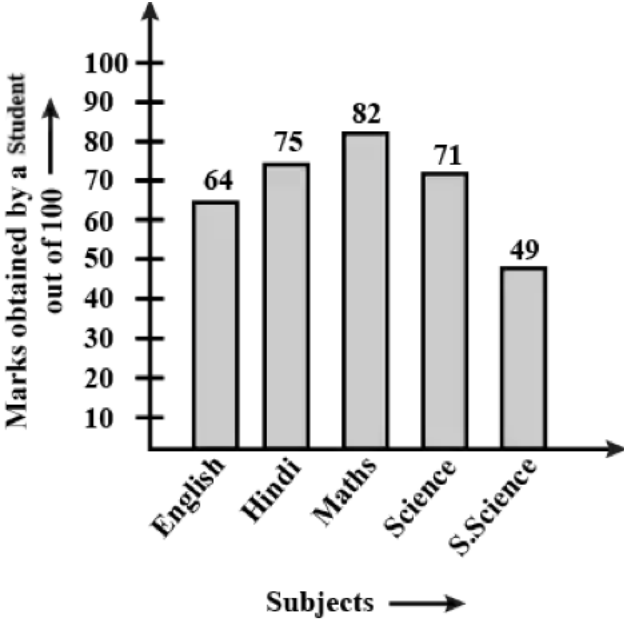
Time: 3 hours

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	Classify the given triangle on the basis of sides and angles. 	1
2	Simplify: $2^3 \times 5$.	1
3	Find the circumference of circle with the radius 14 cm.	1
4	Write algebraic expression for the following statement: 'Product of numbers x and y added to 10'.	1
5	Find 20 % of 2000 .	1
6	The heights of 10 girls were measured in cm and the results are as follows: 135, 150, 139, 128, 151, 132, 146, 149, 143, 141 Find the range.	1
	SECTION B	
7	Find the value of x. 	2
8	Identify the greater number: 2^5 or 5^2 . Justify your answer.	2

18	<p>In a class test, the marks (Out of 10) of 31 students were 5,3,6,5,5,4,1,3,8,4,3,6,5,4,8,2,5,4,4,4,3,7,2,4,5,4,8,9,2,7,4.</p> <p>Find:</p> <p>a) Mode b) Median c) Are they same?</p>	3												
19	<p>Answer the following.</p> <p>a) What is the measure of each angle in an equilateral triangle?</p> <p>b) Name the triangle which has two of its sides as its altitudes.</p> <p>c) How many obtuse angles can a triangle have?</p>	3												
20	<p>A circle of radius 7cm is cut out from a circular sheet of radius 14cm. What is the area of the remaining sheet (shaded region)?</p> <div style="text-align: center;">  </div>	3												
21	<p>A dining table costing ₹ 80000 one year ago, now costs ₹ 60000. Find the percentage increase or decrease in the price.</p>	3												
22	<p>Study the following graph and answer the following question</p> <p>a) In which subject student is very good?</p> <p>b) In which subject student required to work hard?</p> <p>c) How many marks student got more in Hindi than Science?</p> <div style="text-align: center;">  <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Subject</th> <th>Marks</th> </tr> </thead> <tbody> <tr> <td>English</td> <td>64</td> </tr> <tr> <td>Hindi</td> <td>75</td> </tr> <tr> <td>Maths</td> <td>82</td> </tr> <tr> <td>Science</td> <td>71</td> </tr> <tr> <td>S.Science</td> <td>49</td> </tr> </tbody> </table> </div>	Subject	Marks	English	64	Hindi	75	Maths	82	Science	71	S.Science	49	3
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SECTION D

23	If the diagonals of a rhombus measure 10 cm and 24 cm. Find its perimeter.	4														
24	Simplify the following: $\frac{(5^2)^3 \times 4^3 \times 3^2}{25^2 \times (2^2)^2 \times 9}$	4														
25	<p>a) In parallelogram ABCD, AB = 15 cm and BC = 10 cm. The height corresponding to the base AB is 6cm. Find the</p> <p>i) Area of the parallelogram ABCD.</p> <p>ii) Height DM corresponding to the side BC.</p> <div style="text-align: center;"> </div> <p>b) What is the measure of exterior angle of a triangle, if two of its interior opposite angles are 45° and 65°?</p>	4														
26	From the sum of $4 + 3x$ and $5 - 4x + 2x^2$, subtract the sum of $3x^2 - 5x$ and $-x^2 + 2x + 5$.	4														
27	<p>a) Anil bought a second-hand car for ₹ 9000 and sold it to Ramesh with a profit of 10%. Find its selling price and also find how much profit he made in this sale.</p> <p>b) Find the simple interest on ₹ 1500 at 6% per annum for 3 years.</p>	4														
28	<p>The following data gives the production of food grains (in thousand tons) for some years. Draw the bar graph to represent the data graphically.</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th style="width: 20%;">Year</th> <th style="width: 10%;">2017</th> <th style="width: 10%;">2018</th> <th style="width: 10%;">2019</th> <th style="width: 10%;">2020</th> <th style="width: 10%;">2021</th> <th style="width: 10%;">2022</th> </tr> </thead> <tbody> <tr> <td>Production (in thousand tons)</td> <td>120</td> <td>150</td> <td>140</td> <td>180</td> <td>170</td> <td>190</td> </tr> </tbody> </table>	Year	2017	2018	2019	2020	2021	2022	Production (in thousand tons)	120	150	140	180	170	190	4
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29	Express 504×729 as the product of powers of their prime factors.	4
30	<p>a) Classify into monomials, binomials and trinomials.</p> <p>(i) $75x^5y^2z + 9$ (ii) $4abcd^2$</p> <p>(iii) $2xy^2 + 3x^2y$ (iv) $3x + 4y + 2z$</p> <p>b) Identify the like terms and write them in groups.</p> <p>$2x^3y, 12xy^2, -13xy, -15abc, -5yx^3, 4yx, -17bac, 5xy^2.$</p>	4
