



**INDIAN SCHOOL DARSAIT**  
**MATHEMATICS**  
**SAMPLE PAPER- 2**



Class: VII

Max. Marks: 80

Date:

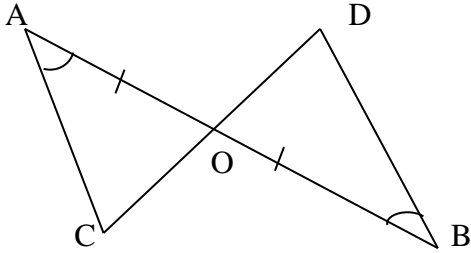
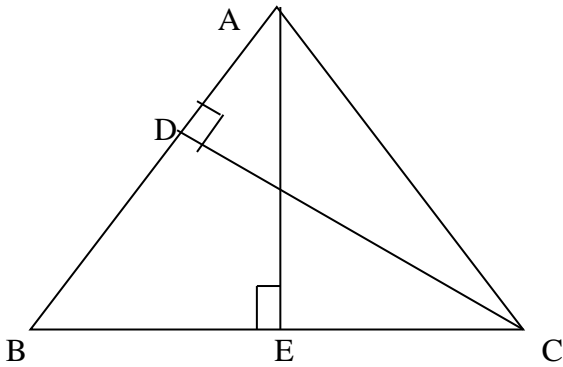
Time: 3 hr

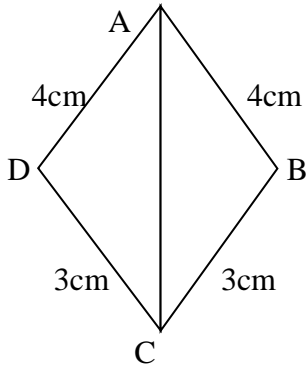
**General Instructions:**

- (i) All questions are compulsory.
- (ii) Calculations should be shown in a working column on the right hand side.
- (iii) Section A : Questions 1-6 carry 1 mark each  
Section B : Questions 7-12 carry 2 mark each  
Section C : Questions 13-22 carry 3 mark each  
Section D : Question 23- 30 carry 4 mark each

**Section A**

1	Milk is sold at the rate of Rs24.50 per litre. How much will 10 litres of milk cost?	1
2	Find the product of $-3$ , $-6$ and $-8$	1
3	Write the additive inverse of $\frac{13}{-27}$	1
4	Find area of a triangle with base = 18cm and height = 12cm.	1
5	Evaluate $2^{10} \div 2^3$	1
6	Find 8% of 125	1
<b>Section B</b>		
7	Write number of faces, vertices and edges of the following (a) Square Prism (b) Triangular pyramid	2
8	Construct $\Delta PQR$ with $PQ = 4.8$ cm, $RP = 5.5$ cm and $\angle RPQ = 60^\circ$ .	2
9	The number of cars in a small colony increased from 500 to 600 in a year. Find the percentage increase.	2
10	The sum of two integers is $-117$ . If one of the integers is 85, find the other.	2

11	<p>Find the condition of congruency which makes <math>\Delta AOC</math> and <math>\Delta BOD</math> congruent given that AC parallel to BD. Prove the congruency</p> 	2
12	Gunika played for $1\frac{3}{7}$ of an hour and Akshay played for $1\frac{4}{9}$ of an hour. Who played for less time?	2
<b>Section C</b>		
13	<p>Solve</p> <p>(a) <math>11 - 3x = 2</math></p> <p>(b) <math>16 = 4 + 3(t + 2)</math></p>	3
14	A road roller has wheels of radius 70 cm. It has to work on 88 km of road. How many revolutions of the wheel will be requires for this purpose? (Take $\pi = \frac{22}{7}$ )	3
15	<p>In <math>\Delta ABC</math>, <math>AB = AC = 10</math> cm, <math>BC = 6</math>cm, <math>AE = 8</math>cm, find CD.</p> 	3
16	Construct a triangle ABC with sides $AB = 7$ cm, $BC = 6$ cm and $\angle ABC = 50^\circ$ .	3
17	<p>Simplify and find the value</p> <p>(a) <math>(-2)^3 \times (-3)^3</math></p> <p>(b) <math>5^2 \times 10^5</math></p>	3
18	Write any 6 rational numbers between $\frac{-4}{7}$ and $\frac{3}{5}$ , out of which three are positive and three are negative.	3
19	<p>Fill in the blanks and write the property used in each of the following</p> <p>(a) <math>7 + [(-5) + (-8)] = \underline{\hspace{2cm}} + (-8)</math></p> <p>(b) <math>0 + (-18) = (-18) + \underline{\hspace{2cm}}</math></p> <p>(c) <math>11 + (-1) = (-1) + \underline{\hspace{2cm}}</math></p>	3

20	Find the criterion which makes $\triangle ABC$ and $\triangle ACD$ congruent?  	3
21	A fridge was sold at Rs7,280 with a profit of 12%. Find the cost price of the fridge.	3
22	A ribbon of length 110.5 m is cut into equal ribbon pieces of length 8.5m. Find the number of ribbon pieces thus obtained.	3
<b>Section D</b>		
23	Simplify and express in exponential form $\frac{12^4 \times 9^4 \times 4}{6^3 \times 8^2 \times 27}$	4
24	A circular park is of radius 35m. A walkway of 3.5 m wide runs outside the park along its edge. Find the cost of constructing this walkway at the rate of Rs75 per sq.m.	4
25	Draw the net for the following solids (a) Triangular Prism (b) Cylinder (c) Cube (d) Square Pyramid	4
26	Arun invested Rs10,0000 at 5% rate p.a for one year. He decided to donate the interest for the charity. (a) Find the amount he collected after one year. (b) How much amount did he donate. (c) What value is depicted from this question?	4
27	Construct a right angled triangle ABC, right angled at A, with hypotenuse BC = 6.3 cm long and one of the sides AB = 4.8 cm long.	4
28	Solve the following (a) $\frac{7}{25} \div \frac{-21}{10}$ (b) $\frac{42}{64} \times \frac{-88}{63}$ (c) $\frac{-12}{19} - \frac{-13}{19}$ (d) $\frac{-29}{6} + \frac{-34}{7}$	4

29	<p>Find the area of shaded region.</p>	4
30	<p>Do as directed</p> <p>(a) Express <math>108 \times 64</math> as a product of prime factors in exponential form.</p> <p>(b) Write 1258963 in standard form.</p>	4