



**THE LAIDLAW MEMORIAL SCHOOL AND JUNIOR COLLEGE,
KETTI
ENTRANCE EXAMINATION
SUBJECT: MATHEMATICS**

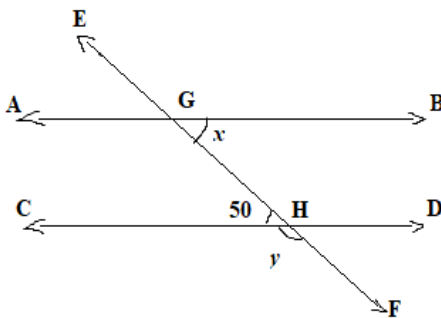
CLASS	: VIII	DATE	: / /2022
READING TIME	: 5 Mins	TOTAL MARKS	: 25
WRITING TIME	: 1 HOUR	NO. OF PAGES	: 02

I Answer the following: **10 X 1 = 10**

- 1) Subtract the sum of -524 and 678 from -92 .
- 2) Which is greater : $\frac{2}{3}$ or $\frac{7}{9}$?
- 3) Solve: $4.56 + 0.8 + 32.5$
- 4) Insert three rational numbers between $\frac{3}{9}$ and $\frac{3}{7}$.
- 5) Find the value of x , if $2^x = 32$.
- 6) If $A = \{3, 4, 5, 6\}$, $B = \{2, 5, 6, 7, 8\}$, find $A \cup B$.
- 7) Divide ₹1500 among A, B and C in the ratio $2 : 5 : 3$.
- 8) Find 20% of 250.
- 9) Add: $4a^3b - 7a^2b^2 + 8ab$, $6a^2b^2 - ab - 6a^3b$.
- 10) The following number of goals were scored by a team in a series of 10 matches.
2, 3, 4, 5, 1, 2, 3, 3, 4, 3. Find the median score.

II Answer the following: **5 X 2 = 10**

- 1) One – fourth of a number decreased by 7 gives 5. Find the number.
- 2) In the figure given below, $AB \parallel CD$ and EF is a transversal intersecting the parallel lines AB and CD at G and H respectively. Find the values of x and y



- 3) The angles of a triangle are in the ratio $5 : 4 : 3$. Find the measure of each angle.
- 4) Find the area of square plot whose perimeter is 136 m.
- 5) If the mean of 24, x , 25, 28, 26 and 34 is 29. Find the value of x .

III Answer any two of the following:

2 X 2½ = 5

- 1) What must be added to $2x^2y^2 - 5x + 7$ to get the sum $-5x^2y^2 + 7x - 9$?
- 2) Solve: $\frac{x-2}{3} + 1 > \frac{x-3}{5}, x \in I$
- 3) A field is in the form of a parallelogram. Its one diagonal is 80 m long and the perpendicular distance of this diagonal from either of the outlying vertices is 20 m as shown in figure. Find the area of the field.

