



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

<b>CLASS</b>	<b>: VIII</b>	<b>DATE</b>	<b>: / /2023</b>
<b>READING TIME</b>	<b>: 5 Mins</b>	<b>TOTAL MARKS</b>	<b>: 25</b>
<b>WRITING TIME</b>	<b>: 1 HOUR</b>	<b>NO. OF PAGES</b>	<b>: 02</b>

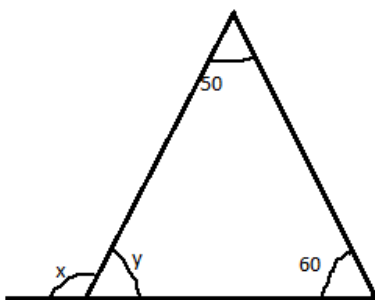
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**I Answer the following:** **10 X 1 = 10**

- 1) Arrange the following integers in ascending order: - 39, 35, - 102, 0, - 51, - 6, 7.
- 2) The next number in the pattern -62, -37, -12, ... is \_\_\_\_\_
- 3) Evaluate:  $\frac{4}{3} + \frac{7}{8}$
- 4) Fill in the blanks:  $\frac{5}{4} = \frac{\quad}{16} = \frac{25}{\quad} = \frac{-15}{\quad}$
- 5) Find the value of:  $2^6$ .
- 6) Write all the subsets of : {3, 5}
- 7) Find  $x$  in the following proportion:  $x : 4 = 9 : 12$
- 8) Express the following percentage as fraction: 20%
- 9) Write down the coefficient of  $x$  in  $5xyz$ .
- 10) Solve  $5x - 3 = 3x + 5$ .

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

- 1) Find  $\frac{3}{4}$  of a year.
- 2) Find: i)  $238.06 \times 7.5$  ii)  $126.35 \div 7$
- 3) Subtract:  $\frac{-6}{13}$  from  $\frac{4}{13}$
- 4) Find the value of  $x$  and  $y$  from the following figure:



- 5) Simplify:  $5x^2y - 5x^2 + 3yx^2 - 3y^2 + x^2 - y^2 + 8xy^2 - 3y^2$ .

**III Answer any two of the following:**

**2 X 2½ = 5**

- 1) An old man walks 200mteres in 20 minutes. Find his speed in km/h as well as in m/sec.
- 2) Find the area of the circle, given that diameter is 9.8m.
- 3) Find the mean of 40, 30, 30, 0, 26, 60.