



VIDYANIKETAN PUBLIC SCHOOL

Ullal Road Cross, Ullal Upanagar,
Bangalore - 560 056

MIDTERM EXAMINATION – OCTOBER 2020 - 21

CLASS : VIII

SUBJECT : MATHEMATICS

TOTAL MARKS : 25

SECTION B (2 x 2M = 4M)

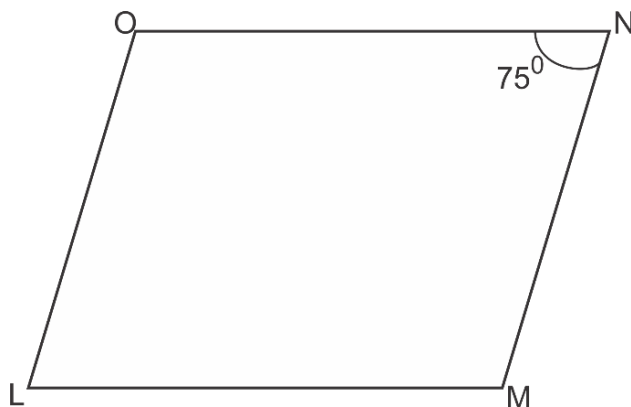
- 1) What is the smallest number by which 3087 must be divided so that the quotient is a perfect cube ?
- 2) The angles of a quadrilateral are in the ratio 1 : 3 : 6 : 8. Find the measure of each of these angles.

SECTION C (3 x 3M = 9M)

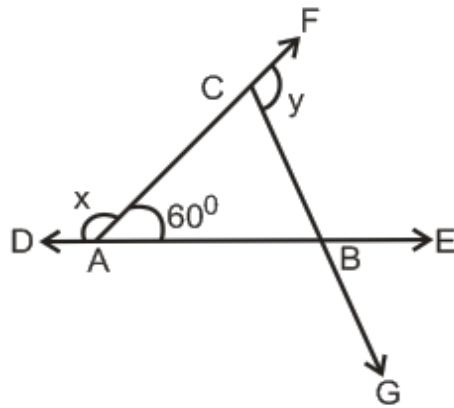
- 3) Find the value of x in : $\left(\frac{-3}{5}\right)^{-6} \div \left(\frac{-3}{5}\right)^4 = \left(\frac{-3}{5}\right)^{-2x}$
- 4) Evaluate : $\sqrt{268.96}$
- 5) The perimeter of a parallelogram is 130cm. If one of the sides is longer than the other by 5cm, find the length of each of its sides.

SECTION D (3 x 4M = 12M)

- 6) a) In the adjoining figure, LMNO is a parallelogram in which $\angle N = 75^\circ$, find the measures of each of the angles $\angle L$, $\angle M$ and $\angle O$



b) Find the value of x and y in the figure given .



7) Find the least number that must be added to 1989 to make it a perfect square. Find the square root of the number so obtained.

8) a) Simplify using appropriate property. (Mention the name of the property)

$$\frac{3}{20} \times \frac{2}{3} + \frac{3}{20} \times \frac{1}{3}$$

b) Solve :

$$\left(\frac{10}{21} \times \frac{7}{20}\right) \div \left(\frac{5}{12} \times \frac{8}{20}\right)$$