

Class: VIII

Full Marks- 40

Subject: Mathematics
All questions are compulsory

Time:1:30 HRS

A. Objective type questions:-

1x10 =10

- Which of the following numbers is in standard form?
 - $-\frac{12}{26}$
 - $-\frac{49}{71}$
 - $-\frac{9}{16}$
 - $\frac{28}{-105}$
- Additive inverse of $-\frac{5}{9}$ is –
 - $-\frac{9}{5}$
 - 0
 - $\frac{5}{9}$
 - $\frac{9}{5}$
- What will be the value of $\sqrt{2^4}/4$.
 - $2\frac{1}{2}$
 - $1\frac{1}{4}$
 - $1\frac{1}{2}$
 - none of these
- In a parallelogram.
 - Opposite angles are unequal.
 - Opposite sides are equal
 - Opposite angles are equal
 - Diagonals are equal.
- A rational number between $-\frac{2}{3}$ and $\frac{1}{4}$ is.
 - $\frac{5}{12}$
 - $-\frac{5}{12}$
 - $\frac{5}{24}$
 - $-\frac{5}{24}$
- Sum of the three consecutive integers is 51. The middle one is ____
 - 14
 - 15
 - 16
 - 17
- Probability of an event = _____
- Two numbers are in the ratio 5:3, if they differ by 18. What are the numbers?
- Algebraic derivatives $(x+a)(x+b)$ is equal to.
- Define convex polyhedrons?

B. Short answer type questions:

15 x2=30

- If $\frac{3}{5}$ of a number exceeds its $\frac{2}{7}$ by 44. Find the number.
- Divide the sum of $\frac{65}{12}$ and $\frac{8}{3}$ by their difference.
- Represent $3.25 - 4.75 + \frac{3}{4}$ on number line.
- A grandfather is ten times older than his granddaughter. He is also 54 years older than her. Find their present ages.
- The four angles of a quadrilateral are in the ratio 2:3:5:8. Then find the angles.
- Draw a parallelogram MORE by using ruler and compass.
OR=6cm, RE= 4.5 cm, EO = 7.5 cm.
- Express 121 as the sum of 11 odd numbers.
- By using prime factorization find the square root of 11025.
- Find the least square number divisible by each one of 8, 9 and 10.
- The two adjacent sides of a rectangle are $5x^2 - 3y^2$ and $x^2 + 2xy$. Find the perimeter.
- What is the difference between monomials and binomials?
- Define Prism.
- Find the product of $(a+b+c) [(a-b)^2 + (b-c)^2 + (c-a)^2]$.
- Write Euler's formula for a parallelogram.