

BCM SCHOOL, BASANT AVENUE DUGRI ROAD, LUDHIANA

MATHS ASSIGNMENT-2 (MAY 2023-24)

CLASS – VII

TOPICS – RATIONAL NUMBERS

SYMMETRY

MCQ'S

1. The sum of rational number $\frac{3}{7}$ and its reciprocal is
 - a) 0
 - b) 1
 - c) 7
 - d) $\frac{58}{21}$
2. The additive inverse of $-\frac{3}{7}$ is
 - a) $\frac{7}{-3}$
 - b) $\frac{4}{-3}$
 - c) $\frac{3}{7}$
 - d) $-\frac{24}{18}$
3. How many lines of symmetry are there in a regular pentagon?
 - a) 1
 - b) 2
 - c) 3
 - d) 5

ASSERTION REASONING

4. Assertion(A): Parallelogram have one line of symmetry.
Reason(R):The line of symmetry is a line that divides an object into two identical pieces.
 - a) Both A and R are true and R is correct explanation of A
 - b) Both A and R are true but R is not the correct explanation of A
 - c) A is true but R is false.
 - d) A is false but R is true.
5. State the order of rotational symmetry of the following figures
 - i) Equilateral triangle
 - ii) Regular hexagon
6. If the product of two rational numbers is $-\frac{9}{16}$ and one of them is $-\frac{4}{15}$, find the other.
7. Subtract the sum of $-\frac{5}{6}$ and $-\frac{8}{5}$ from the sum of $\frac{8}{3}$ and $-\frac{32}{5}$.

CASE STUDY

8. Ram Sharan donated $\frac{2}{3}$ rd of his monthly income to an NGO, working for the education of the girls, spent $\frac{1}{5}$ th of his salary on purchasing food items for consumption of his

family. He contributed $\frac{1}{15}$ th of his salary in meeting out other expenses. He is left with ₹9000.

- i) What is Ram Sharan's Salary?
- ii) How much amount did he donate to NGO for education of Girls?
- iii) How much amount did he spent on purchasing food items?