



ST. LAWRENCE HIGH SCHOOL



A JESUIT CHRISTIAN MINORITY INSTITUTION

CLASS 8

SUBJECT :ArithmeticWork sheet4

Marks:15Rational Numbers

Date:25.1.2021

Answer all the following questions(1×15=15)

1. Additive inverse of $-4/5$ is
 - (a) $4/5$
 - (b) $5/4$
 - (c) $-5/4$
 - (d) 0
2. Sum of a rational number and its additive inverse is
 - (a) 1
 - (b) 0
 - (c) -1
 - (d) None of these
3. Multiplicative inverse of $2/3$ is
 - (a) $3/2$
 - (b) $-3/2$
 - (c) $-2/3$
 - (d) None of these
4. Rational numbers are not closed under
 - (a) addition
 - (b) subtraction
 - (c) multiplication
 - (d) division
5. $0 \div 11/4$ is equal to
 - (a) 0
 - (b) $11/4$
 - (c) $4/11$
 - (d) not defined
6. $2/3 \div 0$ is equal to
 - (a) $2/3$

- (b) $\frac{3}{2}$
- (c) 0
- (d) not defined

7. Multiplication of a non-zero rational number and its reciprocal is

- (a) 0
- (b) 1
- (c) -1
- (d) None of these

8. Product of rational number $-\frac{3}{8}$ and its additive inverse is

- (a) 0
- (b) 1
- (c) $-\frac{9}{64}$
- (d) $\frac{8}{3}$

9. Sum of rational number $\frac{7}{2}$ and its reciprocal is

- (a) $\frac{53}{14}$
- (b) $\frac{14}{5}$
- (c) $-\frac{14}{3}$
- (d) none of these

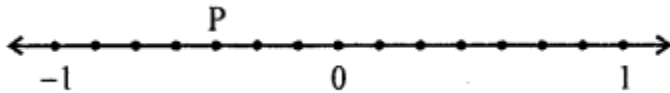
10. Sum of two rational numbers is 0, if one of them is $-\frac{13}{3}$, then other is

- (a) $\frac{13}{3}$
- (b) $\frac{3}{13}$
- (c) 0
- (d) none of these

11. Product of two rational numbers is 1, if one of them is $\frac{9}{5}$ then other is

- (a) $\frac{5}{9}$
- (b) $-\frac{5}{9}$
- (c) $\frac{7}{2}$
- (d) None of these

12. Rational number represented by the point P on the number line is



- (a) $-\frac{3}{7}$
- (b) $\frac{4}{3}$
- (c) $\frac{5}{6}$
- (d) 0

13. What should be subtracted from $\frac{4}{3}$ to get $-\frac{4}{3}$?

- (a) $\frac{8}{3}$
- (b) $\frac{4}{5}$

- (c) $\frac{5}{4}$
- (d) $\frac{1}{4}$

14. Reciprocal of a negative number is

- (a) positive
- (b) negative
- (c) can not say
- (d) does not exist

15. Which of the following statement is true?

(a) $\frac{-4}{5} \div \frac{3}{11} = \frac{3}{11} \div \frac{-4}{5}$

(b) $\frac{2}{3} \div \left(\frac{5}{8} \div \frac{-4}{7} \right) = \left(\frac{2}{3} \div \frac{5}{8} \right) \div \frac{-4}{7}$

(c) $\frac{-3}{17} \div \left(\frac{4}{5} + \frac{-2}{3} \right)$

$$= \left(\frac{-3}{17} \div \frac{4}{5} \right) + \left(\frac{-3}{17} \div \frac{-2}{3} \right)$$

(d) $\left(\frac{4}{5} + \frac{-2}{3} \right) \div \frac{-3}{17}$

$$= \left(\frac{4}{5} \div \frac{-3}{17} \right) + \left(\frac{-2}{3} \div \frac{-3}{17} \right)$$

Indranil Ghosh

