



# ST. LAWRENCE HIGH SCHOOL



A JESUIT CHRISTIAN MINORITY INSTITUTION

**CLASS 8**

**SUBJECT :Arithmetic**

**Work sheet 4 Answer key**

**Marks:15**

**Rational Numbers**

**Date:25.1.2021**

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

1. Additive inverse of  $-\frac{4}{5}$  is
  - (a)  $\frac{4}{5}$
  - (b)  $\frac{5}{4}$
  - (c)  $-\frac{5}{4}$
  - (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  $\frac{2}{3}$  is
  - (a)  $\frac{3}{2}$
  - (b)  $-\frac{3}{2}$
  - (c)  $-\frac{2}{3}$
  - (d) None of these
4. Rational numbers are not closed under
  - (a) addition
  - (b) subtraction
  - (c) multiplication
  - (d) division
5.  $0 \div \frac{11}{4}$  is equal to
  - (a) 0
  - (b)  $\frac{11}{4}$
  - (c)  $\frac{4}{11}$
  - (d) not defined
6.  $\frac{2}{3} \div 0$  is equal to
  - (a)  $\frac{2}{3}$

- (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 is  $\frac{7}{2}$  and its reciprocal is

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

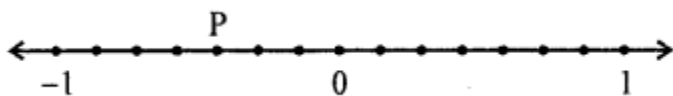
10. Sum of two rational numbers is 0, if one of them is  $-\frac{13}{3}$ , then other is

- (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)  $5/4$
- (d)  $1/4$

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

Ans:d

**Indranil Ghosh**

