



# ST. LAWRENCE HIGH SCHOOL

A JESUIT CHRISTIAN MINORITY INSTITUTION



**Sub: Arithmetic**  
**Duration: 40 min**

**Class: 7**  
**Worksheet Solution 3**  
**RATIONAL NUMBERS**

**Date: 16.04.20**  
**Full Marks: 15**

**Choose the Correct options:**

1. What should be added to  $-5/4$  to get  $-1$ ?

(a)  $-1/4$

**(b)  $1/4$**

(C) 1

(D)  $-3/4$

2. What should be subtracted from  $-5/4$  to get  $-1$ ?

**(a)  $-1/4$**

(b)  $1/4$

(C) 1

(D)  $-3/4$

3. Which of the following is the identity element?

(a) 1

(b)  $-1$

**(c) 0**

(D) None of these

4. Which of the following is the Multiplicative identity for rational numbers?

**(a) 1**

(b)  $-1$

(C) 0

(D) None of these

5. Which of the following is neither a positive nor a negative rational number?

(a) 1

**(b) 0**

(C) Such a rational number doesn't exist

(D) None of these

6. Which of the following lies between 0 and -1?

- (a) 0
- (b) -3
- (C)  $-\frac{2}{3}$**
- (D)  $\frac{4}{3}$

7. What number should be subtracted from  $-\frac{3}{4}$  so as to get  $\frac{5}{6}$ ?

- (a)  $-\frac{3}{10}$
- (b)  $-\frac{5}{24}$
- (c)  $-\frac{19}{12}$**
- (d)  $\frac{9}{25}$

8. Which of the following is the product of  $\frac{7}{8}$  and  $-\frac{4}{21}$ ?

- (a)  $-\frac{1}{6}$**
- (b)  $\frac{1}{12}$
- (C)  $-\frac{16}{63}$
- (D)  $-\frac{147}{16}$

9. Which of the following is the product of  $(-\frac{7}{8})$  and  $\frac{4}{21}$ ?

- (a)  $-\frac{1}{6}$**
- (b) 12
- (C)  $-\frac{63}{16}$
- (D)  $-\frac{16}{147}$

10. Which of the following is the reciprocal of the reciprocal of a rational number?

- (a) -1
- (b) 1
- (C) 0
- (D) The number itself**

11. The sum of the rational numbers  $-\frac{8}{19}$  and  $-\frac{4}{57}$  is \_\_\_\_

- (a)  $-\frac{5}{57}$
- (b)  $\frac{7}{22}$
- (c)  $-\frac{28}{57}$**
- (d)  $\frac{4}{27}$

12. What number should be added to  $\frac{3}{8}$  to get  $-\frac{1}{24}$ ?

**(a)  $-\frac{5}{12}$**

(b)  $-\frac{7}{23}$

(c)  $\frac{31}{72}$

(d)  $\frac{2}{33}$

13. Which of the rational numbers  $\frac{4}{9}$ ,  $-\frac{5}{6}$ ,  $-\frac{7}{-12}$  and  $\frac{11}{-24}$  is the smallest?

(a)  $\frac{4}{9}$

**(b)  $-\frac{5}{6}$**

(c)  $-\frac{7}{-12}$

(d)  $\frac{11}{-24}$

14. Which of the rational numbers  $-\frac{4}{9}$ ,  $\frac{5}{-12}$ ,  $\frac{7}{-18}$ ,  $\frac{2}{-3}$  is the greatest?

**(a)  $\frac{7}{-18}$**

(b)  $-\frac{4}{9}$

(c)  $\frac{2}{-3}$

(d)  $\frac{5}{-12}$

15. Simplify:  $\frac{2}{3} + -\frac{4}{5} + \frac{7}{15} + -\frac{11}{20}$

(a)  $-\frac{1}{5}$

**(b)  $-\frac{13}{60}$**

(c)  $-\frac{4}{15}$

(d)  $-\frac{7}{30}$