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(Affiliated to CBSE up to +2 Level)

CLASS:8<sup>TH</sup>

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SUB.:MATHEMATICS

MCQs

16. Fill in the boxes with the correct symbol:  $\frac{1}{-3} \square \frac{-1}{4}$

- (a) >
- (b) <
- (c) =
- (d) none of these

17. Rewrite the rational number  $\frac{-18}{48}$  in the simplest form.

- (a)  $\frac{-9}{24}$
- (b)  $\frac{-3}{8}$
- (c)  $\frac{3}{8}$
- (d) none of these

18. Rewrite the rational number  $\frac{44}{-72}$  in the simplest form

- (a)  $\frac{22}{-36}$
- (b)  $\frac{11}{-18}$
- (c)  $\frac{11}{18}$
- (d) none of these

19. Write the next rational number in the pattern:  $\frac{-3}{5}, \frac{-6}{10}, \frac{-9}{15}, \frac{-12}{20}, \dots$

- (a)  $\frac{12}{25}$
- (b)  $\frac{15}{25}$
- (c)  $\frac{-15}{25}$
- (d) none of these

20. Write the next rational number in the pattern:

$\frac{-1}{6}, \frac{2}{-12}, \frac{3}{-18}, \frac{4}{-24}, \dots$

- (a)  $\frac{-5}{-30}$
- (b)  $\frac{5}{-30}$
- (c)  $\frac{4}{-30}$
- (d) none of these

Class 8 Maths Rational Number Fill In The Blanks

1. Zero has ..... reciprocal.
2. The numbers ..... and ..... are their own reciprocals.
3. The reciprocal of -5 is .....

4. Reciprocal of  $\frac{1}{x}$ , where  $x \neq 0$  is .....
5. The product of two rational number is always a .....
6. The reciprocal of a positive rational number is .....
7. The additive inverse of  $\frac{-a}{b}$  is .....
8. Reciprocal of  $\frac{-3}{4}$  is .....
9. The reciprocal of a negative rational number is ..... rational number.
10. The rational number ..... is equal to its negative.

Class 8 Maths Rational Number Very Short Answer Type Questions

1. What is the additive inverse of  $\frac{-7}{11}$ ?
2. What is the multiplicative inverse of  $2\frac{3}{11} \times \frac{1}{3}$ ?
3. Which number lies between  $\frac{1}{5}$  and  $\frac{1}{4}$ ?
4. Find the product of  $\frac{3}{8}$  and the reciprocal of  $\frac{-5}{17}$ .
5. A tailor needs  $(\frac{9}{10})^{th}$  of a metre of cloth to stitch a blouse. If he wants to stitch 100 blouses how much cloth will be needed?
6. The sum of the additive inverse and multiplicative inverse of 3 is .....

Class 8 Maths Rational Number Short Answer Type Questions

1. The number which is subtracted from  $\frac{29}{13}$  to get  $\frac{-5}{7}$  is .....
2. The value of x for which the two rational numbers  $\frac{4}{9}, \frac{x}{54}$  are equivalent.
3.  $\frac{5}{6}$  of all the money in Salma's bank account is ₹ 55,000. How much money does Salma have in her bank account?
4. Arrange the number  $\frac{1}{4}, \frac{13}{16}$  and  $\frac{5}{8}$  in the ascending order.

Class 8 Maths Rational Number Long Answer Type Questions

1. Simplify:

$$\frac{5}{8} + \frac{9}{2} + \left(\frac{-4}{5}\right) + \frac{7}{8} + \left(\frac{-5}{2}\right) + \frac{7}{5}$$

2. The cost of  $3\frac{1}{2}$  kg of wheat is Rs 63. How much will  $1\frac{1}{4}$  kg of wheat cost?
3. Season tickets usually cost Rs  $120\frac{4}{5}$  per person. For students, they are priced at  $\frac{1}{4}$  of the normal cost. How much will 6 tickets will cost for students?