CLASS VII – MATHEMATICS – CHAPTER 09
RATIONAL NUMBERS

Name: Date:

01. Find the reciprocal of (-1/3) . (-15/6)
(a). 6/5 (b). 5/6 (c). 1/5 (d). 4/5

02. Product of two rational numbers is -8/9, one is -10/3, find other.
(a). -4/15 (b). 4/15 (c). 15/4 (d). -15/4

03. Reduce (-63)/99 to the standard form.
(a). 11/7 (b). 7/11 (c). -7/11 (d). none of these

04. Write the rational number whose denominator is the smallest 2-digit number and the numerator is the greatest 3-digit number.
(a). 9/10 (b). 99/10 (c). 99 (d). 999/10

05. Subtract -1/2 from -4/5.
(a). 13/10 (b). 10/13 (c). 10/15 (d). 11/13

06. Write 3/4 in the form of percentage.
(a). 100% (b). 75% (c). 50% (d). 25%

07. Find **x** such that (-3)/7 and x/(-21) are equivalent rational numbers.
(a). 11 (b). 13 (c). 9 (d). none of these

08. Identify the smallest rational number.
(a). -9/12 (b). 8/-9 (c). 2/3 (d). 5/-6

09. Write down the additive inverse of 3/7.
(a). -3/7 (b). 4/7 (c). 7/3 (d). 7/4

10. Identify the greatest rational number.
(a). 450/-7 (b). -3/21 (c). 5/7 (d). 29/14

11. Find the product of (-3/5) . (35/7) . (-1/6) .
(a). 1/3 (b). 1/5 (c). 1/4 (d). 1/2

12. Write down the additive inverse of -4/9.
(a). 4/9 (b). -9/4 (c). 9/4 (d). -5/9

13. Write 3/4 in the form of percentage.
(a). 100% (b). 75% (c). 50% (d). 25%

14. (-6/13) – (-7/15) = __?
(a). 195 (b). 1/200 (c). 1/195 (d). none of these

15. Sum of two rational numbers is -8, one of them is 3/4, find the other number.
(a). 4/35 (b). 35/4 (c). -4/35 (d). -35/4

Q01. Fill in the blanks**:**

(a). A rational number is defined as _____.

(b). The rational number 9/1 integer is _____.

(c). Numerator of 5. (3/4) is _____.

(d). (-3)/5 as a rational number with denominator 15 is _____.

(e). The integer -8 as rational number is _____.

(f). The product of a rational number with its reciprocal is always _____.

(g). The ratio of Rs 3 to 30 paise is _____.

(h). The two ratios 2/5 and 3/8 are _____.

(i). 7/5 + _____ = 7/3

(j). There are _____ number of rational numbers between two rational numbers.

Q02. Find out two rational numbers between -3/4 and 0.

Q03. Give four rational numbers equivalent to -2/7.

Q04. Write three more numbers in the following pattern: 1/2, 2/4, 3/6, 4/8, ……

Q05. Simplify: [(2/3) . (-5/4)] + [(-10/3) . (5/2)] – [(-16/3) . (-55/32)].

Q06. Arrange the following in ascending order: -3/4, 7/(-9) and 11/13.

Q07. List four rational numbers between -2 and -1.

Q08. Find the sum of 13.(3/4) + (-11).(1/2).

Q09. Find out six rational numbers between -5/3 and 2/3 .

Q10. Show that the values of 8/15 – 7/10 and 7/10 – 8/15 are different? State the property which is not satisfied?

Q11. Simplify: (10/13) . (26/15) + (13/25) . (10/13)

Q12. Mayank reads 1/3 of a storybook on the first day and 1/4 of the book on the second day. What part of the story book is yet to be read by Mayank?

Q13. Seema spends 3/4 of her pocket money. She spends 1/2 of it on a book, 1/6 on a movie and the remaining amount on a dress. What part of her pocket money did she spend on the dress?

Q13. A shopkeeper sells an article of ₹400, while he purchases it for 402. Find out loss per cent of shopkeeper.

Q14. If 35 shirts of equal size can be stitched from 49/2 meters of cloth, what is the length of the cloth required for each shirt? Find the length of cloth required for 4 shirts of equal size.

Q15. Romila, Pooja and Swati went out for dinner in a hotel. Romila paid 1/3 of the bill, Pooja paid 1/5 of the bill. Swati paid the remaining part of the bill. What part of the bill was paid by Swati?