EduSahara™ Assignment

Name : Operations on Rational Numbers

Chapter : Rational Numbers

Grade : CBSE Grade VII

1. $\frac{9}{10} + 15 =$ _____

   (i) $\frac{159}{8}$ (ii) $\frac{161}{10}$ (iii) $\frac{53}{4}$ (iv) $\frac{157}{10}$ (v) $\frac{159}{10}$

2. $7\frac{2}{5} - 7 =$ _____

   (i) $\frac{4}{5}$ (ii) $\frac{2}{7}$ (iii) $\frac{2}{5}$ (iv) 0 (v) $\frac{2}{3}$

3. $\frac{7}{12} \times 9 =$ _____

   (i) $\frac{7}{2}$ (ii) $\frac{21}{2}$ (iii) $\frac{19}{4}$ (iv) $\frac{23}{4}$ (v) $\frac{21}{4}$

4. $\frac{7}{14} \div 6 =$ _____

   (i) $\frac{1}{12}$ (ii) $\frac{1}{10}$ (iii) $(\frac{-1}{12})$ (iv) $\frac{1}{4}$ (v) $\frac{1}{14}$

5. $\frac{3}{2} + 4 =$ _____

   (i) $\frac{9}{2}$ (ii) $\frac{11}{4}$ (iii) $\frac{11}{2}$ (iv) 11 (v) $\frac{13}{2}$

6. $\frac{167}{11} - 14 =$ _____

   (i) $\frac{13}{9}$ (ii) 1 (iii) $\frac{13}{11}$ (iv) $\frac{15}{11}$

7. $\frac{17}{5} \times 10 =$ _____

   (i) 35 (ii) 34 (iii) 33 (iv) 37 (v) 32

8. $\frac{19}{12} \div 12 =$ _____

   (i) $\frac{19}{142}$ (ii) $\frac{19}{146}$ (iii) $\frac{7}{48}$ (iv) $\frac{19}{144}$ (v) $\frac{17}{144}$

9. $8 + \frac{1}{2} =$ _____

(i) 17 (ii) $\frac{15}{2}$ (iii) $\frac{19}{2}$ (iv) $\frac{17}{4}$ (v) $\frac{17}{2}$

10. $4 - \frac{2}{12} =$ _____

(i) $\frac{23}{6}$ (ii) $\frac{23}{4}$ (iii) $\frac{23}{8}$ (iv) $\frac{25}{6}$ (v) $\frac{7}{2}$

11. $20 \times \frac{3}{11} =$ _____

(i) $\frac{60}{13}$ (ii) $\frac{20}{3}$ (iii) $\frac{60}{11}$ (iv) $\frac{62}{11}$ (v) $\frac{58}{11}$

12. $11 \div \frac{9}{13} =$ _____

(i) 13 (ii) $\frac{143}{9}$ (iii) $\frac{143}{7}$ (iv) $\frac{47}{3}$ (v) $\frac{145}{9}$

13. $6 + \frac{7}{3} =$ _____

(i) 9 (ii) $\frac{23}{3}$ (iii) 25 (iv) $\frac{25}{3}$ (v) 5

14. $6 - \frac{3}{2} =$ _____

(i) 9 (ii) $\frac{7}{2}$ (iii) $\frac{11}{2}$ (iv) $\frac{9}{2}$ (v) $\frac{9}{4}$

15. $3 \times \frac{13}{8} =$ _____

(i) $\frac{37}{8}$ (ii) $\frac{39}{8}$ (iii) $\frac{39}{10}$ (iv) $\frac{13}{2}$ (v) $\frac{41}{8}$

16. $19 \div \frac{12}{5} =$ _____

(i) $\frac{95}{12}$ (ii) $\frac{97}{12}$ (iii) $\frac{31}{4}$ (iv) $\frac{19}{2}$ (v) $\frac{95}{14}$

17. The additive inverse of $(\frac{-1}{7})$ is

(i) 0 (ii) $\frac{1}{7}$ (iii) $\frac{7}{-1}$ (iv) $(\frac{-6}{7})$ (v) $\frac{7}{1}$

18. The multiplicative inverse of $\frac{8}{7}$ is

(i) $(\frac{-1}{8})$ (ii) $\frac{7}{8}$ (iii) $1\frac{7}{8}$ (iv) $(-1\frac{1}{8})$ (v) $2\frac{7}{8}$

19. Find the missing value in $\frac{2}{5} + \_\_\_\_\_ = \frac{56}{65}$

(i) $\frac{4}{13}$ (ii) $\frac{6}{13}$ (iii) $\frac{2}{5}$ (iv) $\frac{6}{11}$ (v) $\frac{8}{13}$

20. Find the missing value in $\frac{12}{15} - \_\_\_\_\_ = \frac{3}{20}$

(i) $\frac{13}{22}$ (ii) $\frac{13}{18}$ (iii) $\frac{13}{20}$ (iv) $\frac{3}{4}$ (v) $\frac{11}{20}$

21. Find the missing value in $\frac{5}{9} \times \_\_\_\_\_ = \frac{20}{63}$

(i) $\frac{3}{7}$ (ii) $\frac{5}{7}$ (iii) $\frac{2}{3}$ (iv) $\frac{1}{2}$ (v) $\frac{4}{7}$

22. Find the missing value in $\frac{6}{9} \div \_\_\_\_\_ = \frac{5}{3}$

(i) $\frac{4}{15}$ (ii) $\frac{2}{5}$ (iii) $\frac{8}{15}$ (iv) $\frac{6}{17}$ (v) $\frac{6}{13}$

23. Find the missing value in $\frac{14}{3} + \_\_\_\_\_ = \frac{25}{3}$

(i) $\frac{13}{3}$ (ii) 3 (iii) 11 (iv) $\frac{11}{5}$ (v) $\frac{11}{3}$

24. Find the missing value in $\frac{17}{10} - \_\_\_\_\_ = \frac{89}{170}$

(i) $\frac{20}{17}$ (ii) $\frac{4}{3}$ (iii) $\frac{22}{17}$ (iv) $\frac{20}{19}$ (v) $\frac{18}{17}$

25. Find the missing value in $\frac{11}{6} \times \_\_\_\_\_ = \frac{110}{39}$

(i) $\frac{20}{11}$ (ii) $\frac{20}{13}$ (iii) $\frac{4}{3}$ (iv) $\frac{18}{13}$ (v) $\frac{22}{13}$

26. Find the missing value in $\frac{15}{13} \div \_\_\_\_\_ = \frac{90}{169}$

(i) $\frac{13}{8}$ (ii) $\frac{13}{6}$ (iii) $\frac{11}{6}$ (iv) $\frac{13}{4}$ (v) $\frac{5}{2}$

27. Which of the following is true?

(i) $\frac{14}{15} \times \frac{14}{16} = 1\frac{1}{15}$ (ii) $\frac{3}{4} \div \frac{2}{4} = \frac{3}{8}$ (iii) $\frac{5}{17} - \frac{1}{4} = \frac{37}{68}$ (iv) $\frac{2}{9} - \frac{1}{9} = \frac{1}{9}$ (v) $\frac{9}{11} + \frac{9}{12} = \frac{3}{44}$

28. Which of the following is true?

(i) $\frac{7}{4} \div \frac{27}{19} = 2\frac{37}{76}$ (ii) $\frac{27}{10} + \frac{12}{5} = \frac{3}{10}$ (iii) $\frac{20}{9} \div \frac{31}{19} = 3\frac{107}{171}$ (iv) $\frac{33}{17} + \frac{24}{19} = \frac{219}{323}$ (v) $\frac{23}{6} \div \frac{11}{8} = 2\frac{26}{33}$

29. Find the missing value in $11\frac{1}{12} + \_\_\_\_\_ = 17\frac{11}{12}$

(i) $6\frac{5}{6}$ (ii) $7\frac{1}{6}$ (iii) $6\frac{1}{2}$ (iv) $7\frac{1}{4}$ (v) $6\frac{5}{8}$

30. Find the missing value in $11\frac{6}{7} - \_\_\_\_\_ = 3\frac{47}{63}$

(i) $7\frac{8}{9}$ (ii) $8\frac{1}{9}$ (iii) $8\frac{1}{3}$ (iv) $8\frac{1}{11}$ (v) $8\frac{1}{7}$

31. Find the missing value in $13\frac{1}{3} \times \_\_\_\_\_ = 158\frac{2}{9}$

(i) 12 (ii) $11\frac{13}{17}$ (iii) $11\frac{11}{15}$ (iv) $11\frac{13}{15}$

32. Find the missing value in $11\frac{2}{7} \div \_\_\_\_\_ = \frac{1343}{2079}$

(i) $17\frac{8}{15}$ (ii) $17\frac{8}{17}$ (iii) $17\frac{8}{19}$ (iv) $17\frac{6}{17}$ (v) $17\frac{10}{17}$

33. $3\frac{1}{7} + 13 = \_\_\_\_\_$

(i) $\frac{113}{7}$ (ii) $\frac{113}{5}$ (iii) $\frac{113}{9}$ (iv) $\frac{111}{7}$ (v) $\frac{115}{7}$

34. $12\frac{11}{12} - 6 = \_\_\_\_\_$

(i) $\frac{85}{12}$ (ii) $\frac{27}{4}$ (iii) $\frac{83}{12}$ (iv) $\frac{83}{14}$ (v) $\frac{83}{10}$

35. $6\frac{3}{4} \times 12 = \_\_\_\_\_$

(i) 81 (ii) 82 (iii) 78 (iv) 80 (v) 83

36. $4\frac{13}{16} \div 16 = \_\_\_\_\_$

(i) $\frac{77}{258}$ (ii) $\frac{77}{254}$ (iii) $\frac{77}{256}$ (iv) $\frac{75}{256}$ (v) $\frac{79}{256}$

37. $17 + 2\frac{5}{14} = \_\_\_\_\_$

(i) $\frac{39}{2}$ (ii) $\frac{269}{14}$ (iii) $\frac{271}{12}$ (iv) $\frac{271}{16}$ (v) $\frac{271}{14}$

38. $10 - 5\frac{3}{14} =$ _____

(i) $\frac{67}{14}$ (ii) $\frac{69}{14}$ (iii) $\frac{65}{14}$ (iv) $\frac{67}{12}$ (v) $\frac{67}{16}$

39. $6 \times 7\frac{9}{10} =$ _____

(i) $\frac{237}{7}$ (ii) 79 (iii) $\frac{239}{5}$ (iv) $\frac{237}{5}$ (v) 47

40. $7 \div 6\frac{2}{9} =$ _____

(i) $\frac{9}{10}$ (ii) $\frac{3}{2}$ (iii) $\frac{7}{8}$ (iv) $\frac{9}{8}$ (v) $\frac{11}{8}$

Assignment Key

1) (v)	2) (iii)	3) (v)	4) (i)	5) (iii)	6) (iii)
7) (ii)	8) (iv)	9) (v)	10) (i)	11) (iii)	12) (ii)
13) (iv)	14) (iv)	15) (ii)	16) (i)	17) (ii)	18) (ii)
19) (ii)	20) (iii)	21) (v)	22) (ii)	23) (v)	24) (i)
25) (ii)	26) (ii)	27) (iv)	28) (v)	29) (i)	30) (ii)
31) (iv)	32) (ii)	33) (i)	34) (iii)	35) (i)	36) (iii)
37) (v)	38) (i)	39) (iv)	40) (iv)		