

EduSahara™ Learning Center Assignment**Grade : Class VII, CBSE****Chapter : Rational Numbers****Name : Operations on Rational Numbers****Licensed To : Teachers and Students for non-commercial use**

1. $\frac{2}{10} + 1 = \text{-----}$

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

2. $3\frac{1}{10} - 3 = \text{-----}$

- (i) $\frac{1}{8}$ (ii) $\frac{1}{12}$ (iii) $(-\frac{1}{10})$ (iv) $\frac{3}{10}$ (v) $\frac{1}{10}$
-

3. $\frac{5}{6} \times 10 = \text{-----}$

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

4. $\frac{3}{5} \div 9 = \text{-----}$

- (i) $\frac{1}{13}$ (ii) $(-\frac{1}{15})$ (iii) $\frac{1}{5}$ (iv) $\frac{1}{17}$ (v) $\frac{1}{15}$
-

5. $\frac{13}{7} + 18 = \text{-----}$

- (i) $\frac{141}{7}$ (ii) $\frac{139}{7}$ (iii) $\frac{139}{9}$ (iv) $\frac{139}{5}$ (v) $\frac{137}{7}$
-

6. $\frac{139}{6} - 20 = \text{-----}$

- (i) $\frac{7}{2}$ (ii) $\frac{19}{6}$ (iii) $\frac{19}{8}$ (iv) $\frac{19}{4}$ (v) $\frac{17}{6}$
-

7. $\frac{10}{9} \times 10 = \text{-----}$

- (i) $\frac{98}{9}$ (ii) $\frac{100}{7}$ (iii) $\frac{34}{3}$ (iv) $\frac{100}{11}$ (v) $\frac{100}{9}$
-

8. $\frac{18}{5} \div 8 = \text{-----}$

- (i) $\frac{11}{20}$ (ii) $\frac{9}{20}$ (iii) $\frac{9}{22}$ (iv) $\frac{7}{20}$ (v) $\frac{1}{2}$
-

9. $11 + \frac{1}{2} = \text{-----}$

(i) $\frac{25}{2}$ (ii) $\frac{23}{2}$ (iii) $\frac{23}{4}$ (iv) 23 (v) $\frac{21}{2}$

10. $19 - \frac{7}{8} = \text{-----}$

(i) $\frac{145}{6}$ (ii) $\frac{29}{2}$ (iii) $\frac{143}{8}$ (iv) $\frac{145}{8}$ (v) $\frac{147}{8}$

11. $7 \times \frac{13}{14} = \text{-----}$

(i) $\frac{13}{4}$ (ii) $\frac{15}{2}$ (iii) $\frac{11}{2}$ (iv) $\frac{13}{2}$ (v) 13

12. $10 \div \frac{2}{3} = \text{-----}$

(i) 13 (ii) 17 (iii) 14 (iv) 16 (v) 15

13. $1 + \frac{13}{11} = \text{-----}$

(i) $\frac{24}{11}$ (ii) 2 (iii) $\frac{24}{13}$ (iv) $\frac{8}{3}$ (v) $\frac{26}{11}$

14. $17 - \frac{8}{7} = \text{-----}$

(i) $\frac{37}{3}$ (ii) $\frac{111}{5}$ (iii) $\frac{111}{7}$ (iv) $\frac{109}{7}$ (v) $\frac{113}{7}$

15. $7 \times \frac{11}{10} = \text{-----}$

(i) $\frac{79}{10}$ (ii) $\frac{77}{8}$ (iii) $\frac{15}{2}$ (iv) $\frac{77}{10}$ (v) $\frac{77}{12}$

16. $19 \div \frac{15}{14} = \text{-----}$

(i) $\frac{266}{17}$ (ii) $\frac{88}{5}$ (iii) $\frac{266}{13}$ (iv) $\frac{268}{15}$ (v) $\frac{266}{15}$

17. The additive inverse of $(\frac{-3}{8})$ is

(i) $\frac{8}{3}$ (ii) $\frac{3}{8}$ (iii) $\frac{8}{-3}$ (iv) $(\frac{-5}{8})$ (v) 0

18. The multiplicative inverse of $(\frac{-1}{5})$ is

(i) -7 (ii) -3 (iii) $\frac{-5}{1}$ (iv) -4 (v) -6

19. Find the missing value in $\frac{1}{15} + \text{-----} = \frac{17}{30}$

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

20. Find the missing value in $\frac{9}{13} - \text{-----} = \frac{51}{130}$

(i) $\frac{1}{3}$ (ii) $\frac{1}{5}$ (iii) $\frac{3}{11}$ (iv) $\frac{3}{10}$ (v) $\frac{2}{5}$

21. Find the missing value in $\frac{11}{17} \times \text{-----} = \frac{55}{119}$

(i) $\frac{5}{9}$ (ii) 1 (iii) $\frac{5}{7}$ (iv) $\frac{3}{7}$

22. Find the missing value in $\frac{1}{11} \div \text{-----} = \frac{2}{11}$

(i) $\frac{7}{18}$ (ii) $\frac{1}{2}$ (iii) $\frac{9}{20}$ (iv) $\frac{11}{18}$ (v) $\frac{9}{16}$

23. Find the missing value in $\frac{19}{16} + \text{-----} = \frac{541}{240}$

(i) $\frac{16}{13}$ (ii) $\frac{14}{15}$ (iii) $\frac{6}{5}$ (iv) $\frac{16}{15}$ (v) $\frac{16}{17}$

24. Find the missing value in $\frac{17}{4} - \text{-----} = \frac{81}{28}$

(i) $\frac{19}{12}$ (ii) $\frac{17}{14}$ (iii) $\frac{3}{2}$ (iv) $\frac{19}{16}$ (v) $\frac{19}{14}$

25. Find the missing value in $\frac{19}{13} \times \text{-----} = \frac{209}{78}$

(i) $\frac{3}{2}$ (ii) $\frac{11}{4}$ (iii) $\frac{11}{6}$ (iv) $\frac{11}{8}$ (v) $\frac{13}{6}$

26. Find the missing value in $\frac{15}{14} \div \text{-----} = \frac{15}{38}$

(i) 3 (ii) $\frac{17}{7}$ (iii) $\frac{19}{7}$ (iv) $\frac{19}{5}$ (v) $\frac{19}{9}$

27. Which of the following is true?

(i) $\frac{5}{7} - \frac{1}{4} = \frac{27}{28}$ (ii) $\frac{12}{17} - \frac{1}{4} = \frac{65}{68}$ (iii) $\frac{15}{16} - \frac{5}{10} = \frac{23}{16}$

(iv) $\frac{10}{16} \div \frac{1}{20} = 12\frac{1}{2}$ (v) $\frac{1}{2} + \frac{1}{5} = \frac{3}{10}$

28. Which of the following is true?

(i) $\frac{17}{2} \div \frac{33}{13} = 21\frac{15}{26}$ (ii) $\frac{39}{10} + \frac{6}{5} = 2\frac{7}{10}$ (iii) $\frac{25}{6} \div \frac{20}{19} = 4\frac{22}{57}$

(iv) $\frac{11}{3} \times \frac{35}{13} = 1\frac{38}{105}$ (v) $\frac{17}{9} \div \frac{3}{2} = 1\frac{7}{27}$

29. Find the missing value in $4\frac{3}{13} + \text{-----} = 14\frac{124}{143}$

- (i) $10\frac{7}{11}$ (ii) $10\frac{9}{11}$ (iii) $10\frac{7}{9}$ (iv) $10\frac{5}{11}$ (v) $10\frac{7}{13}$
-

30. Find the missing value in $15\frac{4}{7} - \text{-----} = 10\frac{9}{28}$

- (i) $5\frac{1}{6}$ (ii) $5\frac{1}{4}$ (iii) $5\frac{3}{4}$ (iv) $4\frac{3}{4}$ (v) $5\frac{1}{2}$
-

31. Find the missing value in $16\frac{7}{8} \times \text{-----} = 158\frac{13}{64}$

- (i) $9\frac{1}{8}$ (ii) $9\frac{3}{8}$ (iii) $9\frac{1}{2}$ (iv) $9\frac{3}{10}$ (v) $9\frac{5}{8}$
-

32. Find the missing value in $9\frac{3}{14} \div \text{-----} = 2\frac{205}{994}$

- (i) $4\frac{5}{17}$ (ii) $4\frac{1}{17}$ (iii) $4\frac{1}{5}$ (iv) $4\frac{3}{19}$ (v) $4\frac{3}{17}$
-

33. $7\frac{5}{6} + 6 = \text{-----}$

- (i) $\frac{83}{4}$ (ii) $\frac{27}{2}$ (iii) $\frac{85}{6}$ (iv) $\frac{83}{8}$ (v) $\frac{83}{6}$
-

34. $12\frac{4}{5} - 9 = \text{-----}$

- (i) $\frac{17}{5}$ (ii) $\frac{19}{3}$ (iii) $\frac{19}{7}$ (iv) $\frac{21}{5}$ (v) $\frac{19}{5}$
-

35. $10\frac{3}{11} \times 12 = \text{-----}$

- (i) $\frac{1358}{11}$ (ii) $\frac{1356}{13}$ (iii) $\frac{1356}{11}$ (iv) $\frac{1354}{11}$ (v) $\frac{452}{3}$
-

36. $10\frac{3}{16} \div 19 = \text{-----}$

- (i) $\frac{163}{304}$ (ii) $\frac{163}{302}$ (iii) $\frac{165}{304}$ (iv) $\frac{161}{304}$ (v) $\frac{163}{306}$
-

37. $12 + 4\frac{3}{5} = \text{-----}$

- (i) $\frac{83}{7}$ (ii) 17 (iii) $\frac{83}{5}$ (iv) $\frac{81}{5}$ (v) $\frac{83}{3}$
-

38. $18 - 9\frac{6}{13} = \text{-----}$

- (i) $\frac{109}{13}$ (ii) $\frac{113}{13}$ (iii) $\frac{111}{13}$ (iv) $\frac{37}{5}$ (v) $\frac{111}{11}$
-

39. $20 \times 8\frac{2}{3} = \text{-----}$

- (i) $\frac{520}{3}$ (ii) $\frac{518}{3}$ (iii) 174 (iv) 520 (v) 104
-

40. $13 \div 5\frac{5}{13} = \text{-----}$

- (i) $\frac{171}{70}$ (ii) $\frac{169}{70}$ (iii) $\frac{169}{68}$ (iv) $\frac{167}{70}$ (v) $\frac{169}{72}$
-

Assignment Key

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

40) (ii)