EduSahara™ Worksheet

Name : Chapter Based Worksheet

Chapter : Rational Numbers

Grade : CBSE Grade VII

1. $17 + \frac{3}{15} =$ _____

   (i) $\frac{86}{7}$ (ii) $\frac{88}{5}$ (iii) $\frac{86}{5}$ (iv) $\frac{84}{5}$ (v) $\frac{86}{3}$

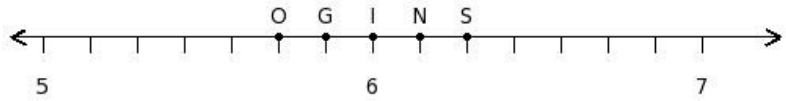
2. $15 \times 8\frac{1}{14} =$ _____

   (i) $\frac{565}{4}$ (ii) $\frac{1693}{14}$ (iii) $\frac{1697}{14}$ (iv) $\frac{1695}{14}$ (v) $\frac{1695}{16}$

3. $6 + \frac{16}{3} =$ _____

   (i) $\frac{34}{3}$ (ii) 12 (iii) $\frac{34}{5}$ (iv) $\frac{32}{3}$ (v) 34

4. Find the position of the rational number $\frac{43}{7}$ on the number line



   (i) N (ii) I (iii) S (iv) O (v) G

5. Find the missing value in $\frac{16}{5} -$ _____ $= \frac{3}{5}$

   (i) $\frac{11}{5}$ (ii) $\frac{13}{5}$ (iii) $\frac{13}{7}$ (iv) $\frac{13}{3}$ (v) 3

6. $3 \div 4\frac{2}{5} =$ _____

   (i) $\frac{17}{22}$ (ii) $\frac{15}{22}$ (iii) $\frac{3}{4}$ (iv) $\frac{5}{8}$ (v) $\frac{13}{22}$

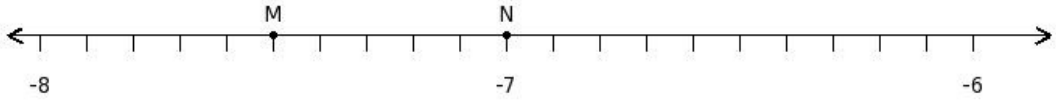
7. $24\frac{2}{9} - 17 =$ _____

   (i) $\frac{67}{9}$ (ii) 7 (iii) $\frac{65}{11}$ (iv) $\frac{65}{9}$ (v) $\frac{65}{7}$

8. $\frac{11}{12} + 11 =$ _____

   (i) $\frac{143}{10}$ (ii) $\frac{145}{12}$ (iii) $\frac{143}{14}$ (iv) $\frac{47}{4}$ (v) $\frac{143}{12}$

9. Find the sum of the rational numbers at the points labelled with letters M and N

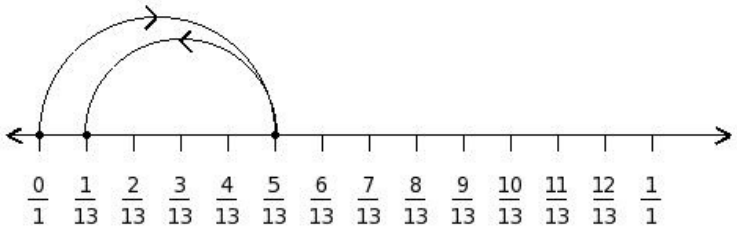


(i) $(\frac{-31}{2})$ (ii) $(\frac{-27}{2})$ (iii) -15 (iv) $(\frac{-57}{4})$ (v) $(\frac{-29}{2})$

10. $\frac{19}{4} \times 13 =$ _____

(i) $\frac{249}{4}$ (ii) $\frac{247}{6}$ (iii) $\frac{247}{2}$ (iv) $\frac{245}{4}$ (v) $\frac{247}{4}$

11. Find the equation representing the following number line diagram



(i) $\frac{6}{13} + \frac{6}{13} = \frac{12}{13}$ (ii) $\frac{7}{13} - \frac{4}{13} = \frac{3}{13}$ (iii) $\frac{4}{13} + \frac{4}{13} = \frac{8}{13}$ (iv) $\frac{5}{13} - \frac{4}{13} = \frac{1}{13}$ (v) $\frac{5}{13} - \frac{7}{13} = (\frac{-2}{13})$

12. Find the missing value in $18\frac{1}{13} - \_\_\_\_\_ = 2\frac{47}{104}$

(i) $15\frac{3}{8}$ (ii) $15\frac{7}{8}$ (iii) $15\frac{1}{2}$ (iv) $15\frac{5}{6}$ (v) $15\frac{5}{8}$

13. Which of the following is true?

(i) $\frac{2}{5} > \frac{4}{8}$ (ii) $\frac{7}{14} > \frac{17}{18}$ (iii) $\frac{8}{14} < \frac{1}{17}$ (iv) $\frac{2}{5} < \frac{4}{7}$ (v) $\frac{10}{16} < \frac{5}{14}$

14. Which of the following is true?

(i) $\frac{11}{5} \times \frac{7}{5} = 1\frac{4}{7}$ (ii) $\frac{31}{12} \times \frac{9}{5} = 1\frac{47}{108}$ (iii) $\frac{11}{5} + \frac{19}{12} = \frac{37}{60}$ (iv) $\frac{32}{3} \div \frac{29}{18} = 6\frac{18}{29}$ (v) $\frac{14}{11} + \frac{13}{11} = \frac{1}{11}$

15. The reciprocal of $\frac{3}{8}$ is

(i) $1\frac{2}{3}$ (ii) $4\frac{2}{3}$ (iii) $\frac{2}{3}$ (iv) $\frac{8}{3}$ (v) $3\frac{2}{3}$

16. Which of the following is true?

(i) $\frac{15}{19} - \frac{3}{13} = \frac{252}{247}$ (ii) $\frac{1}{2} + \frac{2}{11} = \frac{7}{22}$ (iii) $\frac{8}{14} + \frac{6}{13} = \frac{94}{91}$ (iv) $\frac{9}{11} - \frac{4}{5} = \frac{89}{55}$ (v) $\frac{10}{13} \div \frac{1}{2} = \frac{5}{13}$

17. $\frac{3}{9} \times 1 =$ _____

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

18. The additive inverse of $\frac{5}{4}$ is

(i) $\frac{4}{-5}$ (ii) $\frac{4}{5}$ (iii) $(-2\frac{1}{4})$ (iv) $(\frac{-5}{4})$ (v) 0

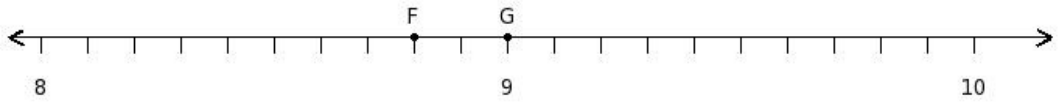
19. Find the missing value in $\frac{5}{9} - \_\_\_\_\_ = \frac{5}{36}$

(i) $\frac{1}{4}$ (ii) $\frac{5}{14}$ (iii) $\frac{1}{2}$ (iv) $\frac{5}{12}$ (v) $\frac{7}{12}$

20. $\frac{1}{3} \div 4 = \_\_\_\_\_$

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

21. Find the sum of the rational numbers at the points labelled with letters F and G



(i) $\frac{87}{5}$ (ii) $\frac{89}{5}$ (iii) $\frac{91}{5}$ (iv) $\frac{55}{3}$ (v) $\frac{123}{7}$

22. $8\frac{13}{16} + 7 = \_\_\_\_\_$

(i) $\frac{253}{18}$ (ii) $\frac{253}{14}$ (iii) $\frac{251}{16}$ (iv) $\frac{255}{16}$ (v) $\frac{253}{16}$

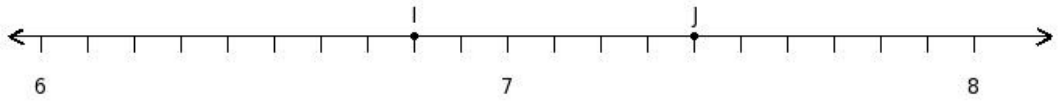
23. $2 - \frac{3}{4} = \_\_\_\_\_$

(i) $\frac{5}{4}$ (ii) $\frac{5}{6}$ (iii) $\frac{3}{4}$ (iv) $\frac{5}{2}$ (v) $\frac{7}{4}$

24. Which of the following is true?

(i) $\frac{31}{22} < \frac{7}{6}$ (ii) $\frac{15}{7} > \frac{16}{5}$ (iii) $\frac{31}{2} > \frac{25}{19}$ (iv) $\frac{37}{34} < \frac{38}{37}$ (v) $\frac{3}{2} < \frac{23}{18}$

25. Find the difference of the rational numbers at the points labelled with letters I and J



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

Assignment Key

1) (iii)	2) (iv)	3) (i)	4) (i)	5) (ii)	6) (ii)
7) (iv)	8) (v)	9) (v)	10) (v)	11) (iv)	12) (v)
13) (iv)	14) (iv)	15) (iv)	16) (iii)	17) (ii)	18) (iv)
19) (iv)	20) (iv)	21) (ii)	22) (v)	23) (i)	24) (iii)
25) (iii)					