



MATHS

BOOKS - ICSE

RATIONAL NUMBERS

Example

1. Add each pair of rational numbers, given below, and show that their addition (sum) is also a rational number :

$$(i) \frac{7}{15} \text{ and } \frac{3}{5}$$

$$(ii) \frac{2}{7} \text{ and } 2$$

$$(iii) \frac{3}{8} \text{ and } \frac{-5}{12}$$

$$(iv) \frac{7}{-15} \text{ and } \frac{2}{-3}$$

$$(v) \frac{5}{-13} \text{ and } \frac{11}{26}$$



[Watch Video Solution](#)

2. Evaluate :

$$(i) \frac{3}{4} + \frac{5}{6} + \frac{-1}{4} + \frac{-7}{6}$$

$$(ii) \frac{9}{-10} + \frac{4}{15} + \frac{-3}{20} + \frac{-3}{10} + \frac{8}{15} + \frac{9}{-20}$$



[Watch Video Solution](#)

3. Use rational numbers $\frac{4}{9}$ and $\frac{-7}{12}$ to verify the commutative property for the addition of rational numbers.



[Watch Video Solution](#)

4. Use rational numbers $\frac{-4}{5}$, $\frac{7}{10}$ and $\frac{11}{-20}$ to verify the associative property of the addition of rational numbers.



[Watch Video Solution](#)

5. Write the additive inverse of :

(i) $\frac{3}{8}$

(ii) $\frac{-8}{15}$

(iii) $\frac{4}{-13}$

(v) $\frac{-6}{-11}$



Watch Video Solution

6. The sum of two rational numbers is $\frac{-5}{8}$. If one of these numbers is $\frac{-7}{12}$, find the other.

A. $\frac{-5}{24}$

B. $\frac{-7}{24}$

C. $\frac{-1}{22}$

D. $\frac{-1}{24}$

Answer: D



Watch Video Solution

7. What should be added to $-\frac{3}{8}$ to get $\frac{5}{6}$?

A. $\frac{29}{24}$

B. $\frac{24}{29}$

C. $\frac{27}{33}$

D. $\frac{39}{41}$

Answer: A



Watch Video Solution

8. What should be subtracted from $-\frac{3}{8}$ to get $\frac{5}{6}$?



Watch Video Solution

9. The product of two rational numbers is $\frac{8}{9}$. If one of them is $-\frac{5}{6}$, find the other.



Watch Video Solution

10. By what number must $-\frac{5}{8}$ be multiplied, so that the product is $\frac{3}{4}$

A. $-\frac{6}{7}$

B. $-\frac{6}{5}$

C. $-\frac{3}{5}$

D. $-\frac{6}{16}$

Answer: B



Watch Video Solution

11. Represent $\frac{1}{2}$ and $-\frac{3}{2}$ on a number line.



Watch Video Solution

12. Represent $-\frac{5}{3}$ and $\frac{4}{3}$ on a number line .



Watch Video Solution

13. Insert one rational number between 2 and 3.



Watch Video Solution

14. Insert one rational number between 7 and 8.



Watch Video Solution

15. Insert one rational number between 3 and 4.



Watch Video Solution

16. Find three rational numbers between $\frac{3}{5}$ and $\frac{4}{7}$.



Watch Video Solution

17. Find five rational numbers between $\frac{3}{4}$ and $\frac{7}{8}$.



Watch Video Solution

18. Find 7 rational numbers between $\frac{5}{6}$ and $\frac{7}{9}$.



Watch Video Solution

Exercise 1 A

1. Add, each pair of rational numbers, given below, and show that their addition (sum) is also a rational number :

(i) $\frac{-5}{8}$ and $\frac{3}{8}$



Watch Video Solution

2. Add, each pair of rational numbers, given below, and show that their addition (sum) is also a rational number :

(ii) $\frac{-8}{13}$ and $\frac{-4}{13}$



Watch Video Solution

3. Add, the following pair of rational numbers, and show that their addition (sum) is also a rational number :

$\frac{6}{11}$ and $\frac{-9}{11}$



[Watch Video Solution](#)

4. Add, pair of rational numbers, given below, and show that their addition (sum) is also a rational number :

$$\frac{5}{-26} \text{ and } \frac{8}{39}$$



[Watch Video Solution](#)

5. Add, each pair of rational numbers, given below, and show that their addition (sum) is

also a rational number :

$$(v) \frac{5}{-6} \text{ and } \frac{2}{3}$$



Watch Video Solution

6. Add, the following pair of rational numbers, and show that their addition (sum) is also a rational number :

$$-2 \text{ and } \frac{2}{5}$$



Watch Video Solution

7. Add, each pair of rational numbers, given below, and show that their addition (sum) is also a rational number :

(vii) $\frac{9}{-4}$ and $\frac{-3}{8}$



Watch Video Solution

8. Add, each pair of rational numbers, given below, and show that their addition (sum) is also a rational number :

(viii) $\frac{7}{-18}$ and $\frac{8}{27}$





[Watch Video Solution](#)

9. Evaluate :

$$(i) \frac{5}{9} + \frac{-7}{6}$$



[Watch Video Solution](#)

10. Evaluate :

$$(ii) 4 + \frac{3}{-5}$$



[Watch Video Solution](#)

11. Evaluate :

(iii) $\frac{1}{-15} + \frac{5}{-12}$

A. $-\frac{29}{60}$

B. $-\frac{19}{60}$

C. $-\frac{29}{80}$

D. $-\frac{28}{50}$

Answer: A



Watch Video Solution

12. Evaluate :

$$(iv) \frac{5}{9} + \frac{3}{-4}$$



Watch Video Solution

13. Evaluate :

$$(v) \frac{-8}{9} + \frac{-5}{12}$$



Watch Video Solution

14. Evaluate :

$$(vi) 0 + \frac{-2}{7}$$



Watch Video Solution

15. Evaluate :

$$(vii) \frac{5}{-11} + 0$$



Watch Video Solution

16. Evaluate :

(viii) $2 + \frac{-3}{5}$



Watch Video Solution

17. Evaluate :

(ix) $\frac{4}{-9} + 1$



Watch Video Solution

18. Evaluate :

$$(i) \frac{3}{7} + \frac{-4}{9} + \frac{-11}{7} + \frac{7}{9}$$



Watch Video Solution

19. Evaluate :

$$(ii) \frac{2}{3} + \frac{-4}{5} + \frac{1}{3} + \frac{2}{5}$$



Watch Video Solution

20. Evaluate :

$$(iii) \frac{4}{7} + 0 + \frac{-8}{9} + \frac{-13}{7} + \frac{17}{9}$$



[Watch Video Solution](#)

21. Evaluate :

$$(iv) \frac{3}{8} + \frac{-5}{12} + \frac{3}{7} + \frac{3}{12} + \frac{-5}{8} + \frac{-2}{7}$$



[Watch Video Solution](#)

22. For each pair of rational numbers, verify commutative property of addition of rational numbers :

(i) $\frac{-8}{7}$ and $\frac{5}{14}$



[Watch Video Solution](#)

23. For each pair of rational numbers, verify commutative property of addition of rational numbers :

(ii) $\frac{-5}{9}$ and $\frac{5}{-12}$





[Watch Video Solution](#)

24. For each pair of rational numbers, verify commutative property of addition of rational numbers :

(iii) $\frac{-4}{5}$ and $\frac{-13}{-15}$



[Watch Video Solution](#)

25. For each pair of rational numbers, verify commutative property of addition of rational

numbers :

(iv) $\frac{2}{-5}$ and $\frac{11}{-15}$



[Watch Video Solution](#)

26. For each pair of rational numbers, verify commutative property of addition of rational numbers :

(v) 3 and $\frac{-2}{7}$



[Watch Video Solution](#)

27. For each pair of rational numbers, verify commutative property of addition of rational numbers :

(vi) -2 and $\frac{3}{-5}$



[Watch Video Solution](#)

28. For each set of rational numbers, given below, verify the associative property of addition of rational numbers :

(i) $\frac{1}{2}$, $\frac{2}{3}$ and $-\frac{1}{6}$





[Watch Video Solution](#)

29. For the set of rational numbers, given below, verify the associative property of addition of rational numbers :

$$\frac{-2}{5}, \frac{4}{15} \text{ and } \frac{-7}{10}$$



[Watch Video Solution](#)

30. For each set of rational numbers, given below, verify the associative property of

addition of rational numbers :

(iii) $\frac{-7}{9}$, $\frac{2}{-3}$ and $\frac{-5}{18}$



[Watch Video Solution](#)

31. For each set of rational numbers, given below, verify the associative property of addition of rational numbers :

(iv) -1 , $\frac{5}{6}$ and $\frac{-2}{3}$



[Watch Video Solution](#)

32. Write the additive inverse (negative) of :

(i) $\frac{-3}{8}$



Watch Video Solution

33. Write the additive inverse (negative) of :

(ii) $\frac{4}{-9}$



Watch Video Solution

34. Write the additive inverse (negative) of :

(iii) $\frac{-7}{5}$



Watch Video Solution

35. Write the additive inverse (negative) of :

(iv) $\frac{-4}{-13}$



Watch Video Solution

36. Write the additive inverse (negative) of :

(v) 0



Watch Video Solution

37. Write the additive inverse (negative) of :

(vi) -2



Watch Video Solution

38. Write the additive inverse (negative) of :

(vii) 1



Watch Video Solution

39. Write the additive inverse (negative) of :

(viii) $-\frac{1}{3}$



Watch Video Solution

40. Write the additive inverse (negative) of :

(ix) $\frac{-3}{1}$



Watch Video Solution

41. Fill in the blank :

Additive inverse of $\frac{-5}{-12} = \dots\dots\dots$.



Watch Video Solution

42. Fill in the blanks :

(ii) $\frac{-5}{-12} +$ its additive inverse =



Watch Video Solution

43. Fill in the blanks :

(iii) If $\frac{a}{b}$ is additive inverse of $\frac{-c}{d}$, then $\frac{-c}{d}$ is

additive inverse of

And so

$$\frac{a}{b} + \frac{(-c)}{d} = \frac{(-c)}{d} + \frac{a}{b} = \dots\dots\dots$$



Watch Video Solution

44. State, true or false :

$$(i) \frac{7}{9} = \frac{7 + 5}{9 + 5}$$



Watch Video Solution

45. State, true or false :

$$(ii) \frac{7}{9} = \frac{7 - 5}{9 - 5}$$



Watch Video Solution

46. State, true or false :

$$(iii) \frac{7}{9} = \frac{7 \times 5}{9 \times 5}$$



Watch Video Solution

47. State, true or false :

$$(iv) \frac{7}{9} = \frac{7 \div 5}{9 \div 5}$$



Watch Video Solution

48. State, true or false :

$\frac{-5}{-12}$ is a negative rational number



Watch Video Solution

49. State, true or false :

(vi) $\frac{-13}{25}$ is smaller than $\frac{-25}{13}$.



Watch Video Solution

Exercise 1 B

1. Evaluate :

$$(i) \frac{2}{3} - \frac{4}{5}$$



Watch Video Solution

2. Evaluate :

$$(ii) \frac{-4}{9} - \frac{2}{-3}$$



Watch Video Solution

3. Evaluate :

$$(iii) -1 - \frac{4}{9}$$



[Watch Video Solution](#)

4. Evaluate :

$$(iv) \frac{-2}{7} - \frac{3}{-14}$$



[Watch Video Solution](#)

5. Evaluate :

$$(v) \frac{-5}{18} - \frac{-2}{9}$$



[Watch Video Solution](#)

6. Evaluate :

$$(vi) \frac{5}{21} - \frac{-13}{42}$$



[Watch Video Solution](#)

7. Subtract :

(i) $\frac{5}{8}$ from $\frac{-3}{8}$



[Watch Video Solution](#)

8. Subtract :

(ii) $\frac{-8}{11}$ from $\frac{4}{11}$



[Watch Video Solution](#)

9. Subtract :

(iii) $\frac{4}{9}$ from $\frac{-5}{9}$



Watch Video Solution

10. Subtract :

(iv) $\frac{1}{4}$ from $\frac{-3}{8}$



Watch Video Solution

11. Subtract :

(v) $\frac{-5}{8}$ from $\frac{-13}{16}$



Watch Video Solution

12. Subtract :

(vi) $\frac{-9}{22}$ from $\frac{5}{33}$



Watch Video Solution

13. The sum of two rational numbers is $\frac{9}{20}$. If one of them is $\frac{2}{5}$, find the other.



Watch Video Solution

14. The sum of two rational numbers is $-\frac{2}{3}$. If one of them is $-\frac{8}{15}$, find the other.



Watch Video Solution

15. The sum of two rational numbers is -6 . If one of them is $\frac{-8}{5}$, find the other.



Watch Video Solution

16. Which rational number should be added to $\frac{-7}{8}$ to get $\frac{5}{9}$?



Watch Video Solution

17. Which rational number should be added to

$$\frac{-5}{9} \text{ to get } \frac{-2}{3} ?$$



[Watch Video Solution](#)

18. Which rational number should be

$$\text{subtracted from } \frac{-5}{6} \text{ to get } \frac{4}{9} ?$$



[Watch Video Solution](#)

19. (i) What should be subtracted from -2 to get $\frac{3}{8}$?

(ii) What should be added to -2 to get $\frac{3}{8}$?



Watch Video Solution

20. Evaluate :

(i) $\frac{3}{7} + \frac{-4}{9} - \frac{-11}{7} - \frac{7}{9}$



Watch Video Solution

21. Evaluate :

$$(ii) \frac{2}{3} + \frac{-4}{5} - \frac{1}{3} - \frac{2}{5}$$



Watch Video Solution

22. Evaluate :

$$(iii) \frac{4}{7} - \frac{-8}{9} - \frac{13}{7} + \frac{17}{9}$$



Watch Video Solution

Exercise 1 C

1. Evaluate :

$$(i) \frac{-14}{5} \times \frac{-6}{7}$$



Watch Video Solution

2. Evaluate :

$$(ii) \frac{7}{6} \times \frac{-18}{91}$$



Watch Video Solution

3. Evaluate :

$$(iii) \frac{-125}{72} \times \frac{9}{-5}$$



Watch Video Solution

4. Evaluate :

$$(iv) \frac{-11}{9} \times \frac{-51}{-44}$$



Watch Video Solution

5. Evaluate :

$$(v) - \frac{16}{5} \times \frac{20}{8}$$



[Watch Video Solution](#)

6. Multiply :

$$(i) \frac{5}{6} \text{ and } \frac{8}{9}$$



[Watch Video Solution](#)

7. Multiply :

(ii) $\frac{2}{7}$ and $-\frac{14}{9}$



Watch Video Solution

8. Multiply :

(iii) $\frac{-7}{8}$ and 4



Watch Video Solution

9. Multiply :

$$(iv) \frac{36}{-7} \text{ and } \frac{-9}{28}$$



[Watch Video Solution](#)

10. Multiply :

$$(v) \frac{-7}{10} \text{ and } \frac{-8}{15}$$



[Watch Video Solution](#)

11. Multiply :

(i) $\frac{3}{-2}$ and $\frac{-7}{3}$



Watch Video Solution

12. Evaluate :

(i) $\left(\frac{2}{-3} \times \frac{5}{4}\right) + \left(\frac{5}{9} \times \frac{3}{-10}\right)$



Watch Video Solution

13. Evaluate :

$$(2) \times (1)/(4) - [(-18)/(7) \times (-7)/(15)]$$



Watch Video Solution

14. Evaluate :

$$\left(-5 \times \frac{2}{15} \right) - \left(-6 \times \frac{2}{9} \right)$$



Watch Video Solution

15. Evaluate :

$$(i) \left(\frac{8}{5} \times \frac{-3}{2} \right) + \left(\frac{-3}{10} \times \frac{9}{16} \right)$$



Watch Video Solution

16. Multiply the rational number, given below,

by one (1) :

$$(i) \frac{7}{-5}$$



Watch Video Solution

17. Multiply each other rational number, given

below, by one (1) :

(ii) $\frac{-3}{-4}$



Watch Video Solution

18. Multiply the rational number, given below,

by one (1) :

(i) 0



Watch Video Solution

19. Multiply each other rational number, given below, by one (1) :

(iv) $\frac{-8}{13}$



Watch Video Solution

20. Multiply the rational number, given below, by one (1) :

(i) $\frac{-6}{-7}$



Watch Video Solution

21. For pair of rational numbers, given below,

verify that the multiplication is commutative :

$$\frac{-1}{5} \text{ and } \frac{2}{9}$$



[Watch Video Solution](#)

22. For each pair of rational numbers, given

below, verify that the multiplication is

commutative :

(ii) $\frac{5}{-3}$ and $\frac{13}{-11}$



[Watch Video Solution](#)

23. For each pair of rational numbers, given below, verify that the multiplication is commutative :

(iii) 3 and $\frac{-8}{9}$



Watch Video Solution

24. For each pair of rational numbers, given below, verify that the multiplication is commutative :

(iv) 0 and $\frac{-12}{17}$



Watch Video Solution

25. Write the reciprocal (multiplicative inverse) of each rational number, given below :

(i) 5 (ii) -3 (iii) $\frac{5}{11}$ (iv) $-\frac{7}{-8}$ (v) $-\frac{8}{-7}$ (vi) $\frac{15}{-17}$



Watch Video Solution

26. Write the reciprocal (multiplicative inverse) of each rational number, given below :

(ii) -3



Watch Video Solution

27. Write the reciprocal (multiplicative inverse) of each rational number, given below :

(iii) $\frac{5}{11}$



[Watch Video Solution](#)

28. Write the reciprocal (multiplicative inverse) of each rational number, given below :

(iv) $\frac{-7}{-8}$



[Watch Video Solution](#)

29. Write the reciprocal (multiplicative inverse) of each rational number, given below :

(v) $\frac{-8}{-7}$



Watch Video Solution

30. Write the reciprocal (multiplicative inverse) of each rational number, given below :

(vi) $\frac{15}{-17}$



Watch Video Solution

31. Find the reciprocal (multiplicative inverse)

of :

(i) $\frac{3}{5} \times \frac{2}{3}$ (ii) $\frac{-8}{3} \times \frac{13}{-7}$ (iii) $\frac{-3}{5} \times \frac{-1}{13}$



Watch Video Solution

32. Find the reciprocal (multiplicative inverse)

of :

(ii) $\frac{-8}{3} \times \frac{13}{-7}$



Watch Video Solution

33. Find the reciprocal (multiplicative inverse)

of :

(iii) $\frac{-3}{5} \times \frac{-1}{13}$



Watch Video Solution

34. Verify that $(x + y) \times z = x \times z + y \times z$,

if

(i) $x = \frac{4}{5}$, $y = \frac{-2}{3}$ and $z = -4$

(ii) $x = 2$, $y = \frac{4}{5}$ and $z = \frac{3}{-10}$



Watch Video Solution

35. Verify that $x \times (y - z) = x \times y - x \times z$,

if

(i) $x = \frac{4}{5}$, $y = -\frac{7}{4}$ and $z = 3$

(ii) $x = \frac{3}{4}$, $y = \frac{8}{9}$ and $z = -5$



Watch Video Solution

36. Name the multiplication property of rational numbers shown below :

(i) $\frac{3}{5} \times \frac{-8}{9} = \frac{-8}{9} \times \frac{3}{5}$



Watch Video Solution

37. Name the multiplication property of rational numbers shown below :

(i)

$$\frac{-3}{4} \times \left(\frac{5}{7} \times \frac{-8}{15} \right) = \left(\frac{-3}{4} \times \frac{5}{7} \right) \times \frac{-8}{15}$$



Watch Video Solution

38. Name the multiplication property of rational numbers shown below :

(iii)

$$\frac{4}{5} \times \left(\frac{3}{-8} + \frac{-4}{7} \right) = \frac{4}{5} \times \frac{3}{-8} + \frac{4}{5} \times \frac{-4}{7}$$



Watch Video Solution

39. Name the multiplication property of rational numbers shown below :

$$(iv) \frac{-7}{5} \times \frac{5}{-7} = 1$$



Watch Video Solution

40. Name the multiplication property of rational numbers shown below :

$$(v) \frac{8}{-9} \times 1 = 1 \times \frac{8}{-9} = \frac{8}{-9}$$



41. Fill in the blanks :

- (i) The product of two positive rational numbers is always.....(ii) The product of two negative rational numbers is always
- (iii) If two rational numbers have opposite signs then their product is always
- (iv) The reciprocal of a positive rational number is and the reciprocal of a negative rational number is
- (v) Rational number 0 has reciprocal. (vi) The

product of a rational number and its reciprocal is (vii) The numbers and are their own reciprocals. (viii) If m is reciprocal of n , then the reciprocal of n is



[Watch Video Solution](#)

42. Fill in the blanks :

(ii) The product of two negative rational numbers is always.....



[Watch Video Solution](#)

43. Fill in the blanks :

(iii) If two rational numbers have opposite signs then their product is always.....



Watch Video Solution

44. Fill in the blanks :

(iv) The reciprocal of a positive rational number is.....and the reciprocal of a negative rational number is.....



Watch Video Solution

45. Fill in the blanks :

(v) Rational number 0 has.....reciprocal.



Watch Video Solution

46. Fill in the blanks :

(vi) The product of a rational number and its reciprocal is.....



Watch Video Solution

47. Fill in the blanks :

(vii) The numbers.....and.....are their own reciprocals.



Watch Video Solution

48. Fill in the blanks :

(viii) If m reciprocal of n , then the reciprocal of n is.....



Watch Video Solution

Exercise 1 D

1. Evaluate :

(i) $1 \div \frac{1}{3}$



[Watch Video Solution](#)

2. Evaluate :

(i) $3 \div \frac{3}{5}$



[Watch Video Solution](#)

3. Evaluate :

$$(iii) -\frac{5}{12} \div \frac{1}{16}$$



[Watch Video Solution](#)

4. Evaluate :

$$(iv) -\frac{21}{16} \div \left(\frac{-7}{8} \right)$$



[Watch Video Solution](#)

5. Evaluate :

$$(v) 0 \div \left(-\frac{4}{7} \right)$$



Watch Video Solution

6. Evaluate :

$$(vi) \frac{8}{-5} \div \frac{24}{25}$$



Watch Video Solution

7. Evaluate :

$$(vii) -\frac{3}{4} \div (-9)$$



Watch Video Solution

8. Evaluate :

$$\text{(viii) } \frac{3}{4} \div \left(-\frac{5}{12} \right)$$



Watch Video Solution

9. Evaluate :

$$\text{(ix) } -5 \div \left(-\frac{10}{11} \right)$$



Watch Video Solution

10. Evaluate :

$$\frac{-7}{11} \div \left(\frac{-3}{44} \right)$$

A. $\frac{28}{5}$

B. $\frac{25}{3}$

C. $\frac{28}{3}$

D. $\frac{38}{3}$

Answer: C



Watch Video Solution

11. Divide :

(i) $3b$ by $\frac{1}{3}$



Watch Video Solution

12. Divide :

(ii) $-2b$ by $\left(-\frac{1}{2}\right)$



Watch Video Solution

13. Divide :

(iii) 0 by $\frac{7}{-9}$



Watch Video Solution

14. Divide :

(iv) $\frac{-5}{8}$ by $\frac{1}{4}$



Watch Video Solution

15. Divide :

(i) $-\frac{3}{4}$ by $-\frac{9}{16}$



Watch Video Solution

16. The product of two rational numbers is -2 .

If one of them is $\frac{4}{7}$, find the other.



Watch Video Solution

17. The product of two numbers is $-\frac{4}{9}$. If one

of them is $\frac{-2}{27}$, find the other.



Watch Video Solution

18. m and n are two rational numbers such that $m \times n = -\frac{25}{9}$.

(i) if $m = \frac{5}{3}$, find n ,

(ii) if $n = -\frac{10}{9}$, find m .



Watch Video Solution

19. By what number must $-\frac{3}{4}$ be multiplied, so that the product is $-\frac{9}{16}$?



Watch Video Solution

20. By what number should $\frac{-8}{13}$ be multiplied to get 16 ?



[Watch Video Solution](#)

21. If $3\frac{1}{2}$ litres of milk costs ₹49, find the cost of one litre of milk ?



[Watch Video Solution](#)

22. Cost of $3\frac{2}{5}$ metre of cloth is ₹ $88\frac{1}{2}$. What is the cost of 1 metre of cloth ?



Watch Video Solution

23. Divide the sum of $\frac{3}{7}$ and $\frac{-5}{14}$ by $-\frac{1}{2}$.



Watch Video Solution

24. Find $(m + n) \div (m - n)$, if :

(i) $m = \frac{2}{3}$ and $n = \frac{3}{2}$

$$(ii) m = \frac{3}{4} \text{ and } n = \frac{4}{3}$$

$$(iii) m = \frac{4}{5} \text{ and } n = -\frac{3}{10}$$



[Watch Video Solution](#)

25. The product of two rational numbers is -5

. If one of these numbers is $\frac{-7}{15}$, find the

other.



[Watch Video Solution](#)

26. Divide the sum of $\frac{5}{8}$ and $\frac{-11}{12}$ by the difference of $\frac{3}{7}$ and $\frac{5}{14}$.



Watch Video Solution

Exercise 1 E

1. Draw a number line and mark

$\frac{3}{4}$, $\frac{7}{4}$, $\frac{-3}{4}$ and $\frac{-7}{4}$ on it.



Watch Video Solution

2. On a number line mark the points

$$\frac{2}{3}, \frac{-8}{3}, \frac{7}{3}, \frac{-2}{3} \text{ and } -2.$$



Watch Video Solution

3. Insert one rational number between

(i) 7 and 8

(ii) 3.5 and 5

(iii) 2 and 3.2

(iv) 4.2 and 3.6

(v) $\frac{1}{2}$ and 2



Watch Video Solution

4. Insert two rational numbers between

(i) 6 and 7

(ii) 4.8 and 6

(iii) 2.7 and 6.3



Watch Video Solution

5. Insert three rational numbers between

(i) 3 and 4

(ii) 10 and 12



[Watch Video Solution](#)

6. Insert five rational numbers between

$$\frac{3}{5} \text{ and } \frac{2}{3}.$$



[Watch Video Solution](#)

7. Insert six rational numbers between

$$\frac{5}{6} \text{ and } \frac{8}{9}.$$



[Watch Video Solution](#)

8. Insert seven rational numbers between 2 and 3.



[Watch Video Solution](#)