

[Download Doubtnut Now](#)**EXERCISE 1.1 - Question No. 1**

Using appropriate properties find. (i)  $-\frac{2}{5} \times \frac{3}{5} + \frac{5}{2} - \frac{3}{5} \times \frac{1}{6}$

(ii)  $\frac{2}{5} \times \left(-\frac{3}{7}\right) - \frac{1}{6} \times \frac{3}{2} + \frac{1}{14} \times \frac{2}{5}$

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**EXERCISE 1.1 - Question No. 2**

Write the additive inverse of each of the following. (i)  $\frac{2}{8}$  (ii)  $-\frac{5}{9}$

(iii)  $-\frac{6}{-5}$  (iv)  $\frac{2}{-9}$  (v)  $\frac{19}{-6}$

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**EXERCISE 1.1 - Question No. 3**

Verify that  $(-x) = x$  for (i)  $x = \frac{11}{15}$  (ii)  $x = -\frac{13}{17}$

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**EXERCISE 1.1 - Question No. 4**

Find the multiplicative inverse of the following. (i)  $-13$  (ii)  $-\frac{13}{19}$

(iii)  $\frac{1}{5}$  (iv)  $-\frac{5}{8} \times -\frac{3}{7}$  (v)  $-1 \times -\frac{2}{5}$  (vi)  $-1$

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**EXERCISE 1.1 - Question No. 5**

Name the property under multiplication used in each of the

following. (i)  $\frac{-4}{5} \times 1 = 1 \times \frac{-4}{5}$  (ii)

$\frac{13}{17} \times \frac{-2}{7} = \frac{-2}{7} \times \frac{-13}{17}$  (iii)  $\frac{-19}{29} \times \frac{29}{-19} =$

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#### EXERCISE 1.1 - Question No. 6

Multiply  $\frac{6}{13}$  by the reciprocal of  $\frac{-7}{16}$ .

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#### EXERCISE 1.1 - Question No. 7

Tell what property allows you to compute

$$\frac{1}{3} \times \left( 6 \times \frac{4}{5} \right) \text{ as } \left( \frac{1}{3} \times 6 \right) \times \frac{4}{5}.$$

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### EXERCISE 1.1 - Question No. 8

Is  $\frac{8}{9}$  the multiplicative inverse of  $-1\frac{1}{8}$ ? Why or Why Not?

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### EXERCISE 1.1 - Question No. 9

Is 0.3 the multiplicative inverse of  $(3)\frac{1}{3}$ ? Why or why not?

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**EXERCISE 1.1 - Question No. 10**

Write. (i) The rational number that does not have a reciprocal. (ii)

The rational numbers that are equal to their reciprocals. (iii) The

rational number that is equal to its negative.

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**EXERCISE 1.1 - Question No. 11**

Fill in the blanks. (i) Zero has reciprocal. (ii) The numbers and are

their own reciprocals (iii) The reciprocal of ( $\frac{1}{5}$ ) is. (iv) Reciprocal

of  $\frac{1}{x}$ , where  $x \neq 0$  is. (v) The product of two rational numbers is

always a. (vi) The reciprocal of a positive rational number is.

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**EXERCISE 1.2 - Question No. 1**

Represent these numbers on the number line. (i)  $\frac{7}{4}$  (ii)  $\frac{5}{6}$

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**EXERCISE 1.2 - Question No. 2**

Represent  $\frac{-2}{11}$ ,  $\frac{-5}{11}$ ,  $\frac{-9}{11}$  on the number line.

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**EXERCISE 1.2 - Question No. 3**

Write five rational numbers which are smaller than 2.

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#### EXERCISE 1.2 - Question No. 4

Find ten rational numbers between  $-\frac{2}{5}$  and  $\frac{1}{2}$ .

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#### EXERCISE 1.2 - Question No. 5

Find five rational numbers between. (i)  $\frac{2}{3}$  and  $\frac{4}{5}$  (ii)

$-\frac{3}{2}$  and  $\frac{5}{3}$  (iii)  $\frac{1}{4}$  and  $\frac{1}{2}$

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## EXERCISE 1.2 - Question No. 6

Write five rational numbers greater than 2.

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## EXERCISE 1.2 - Question No. 7

Find ten rational numbers between  $\frac{3}{5}$  and  $\frac{3}{4}$

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## SOLVED EXAMPLES - Question No. 1

Find  $\frac{3}{7} + \left(\frac{-6}{11}\right) + \left(\frac{-8}{21}\right) + \left(\frac{5}{22}\right)$



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**SOLVED EXAMPLES - Question No. 2**

Find  $\frac{-4}{5} \times \frac{3}{7} \times \frac{15}{16} \times \left(\frac{-14}{9}\right)$

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**SOLVED EXAMPLES - Question No. 3**

Write the additive inverse of the following: (i)  $\frac{-7}{19}$  (ii)  $\frac{21}{112}$

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**SOLVED EXAMPLES - Question No. 4**

Verify that  $(-x)$  is the additive inverse of  $x$  for (i)  $x = \frac{13}{17}$  (ii)  $x = \frac{-21}{31}$

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**SOLVED EXAMPLES - Question No. 5**

Find  $\frac{2}{5} \times \frac{-3}{7} - \frac{1}{14} - 37 \times \frac{3}{5}$

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**SOLVED EXAMPLES - Question No. 6**

Write any 3 rational numbers between  $-1$  and  $0$ .

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**SOLVED EXAMPLES - Question No. 7**

Find any ten rational numbers between  $-\frac{5}{6}$  and  $\frac{5}{8}$ .

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**SOLVED EXAMPLES - Question No. 8**

Find a rational number between  $\frac{1}{4}$  and  $\frac{1}{2}$ .

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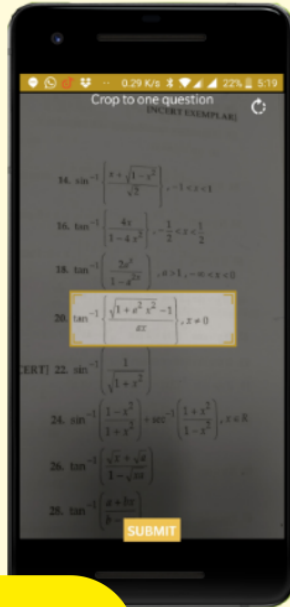
**SOLVED EXAMPLES - Question No. 9**

Find three rational numbers between  $\frac{1}{4}$  and  $\frac{1}{2}$ .

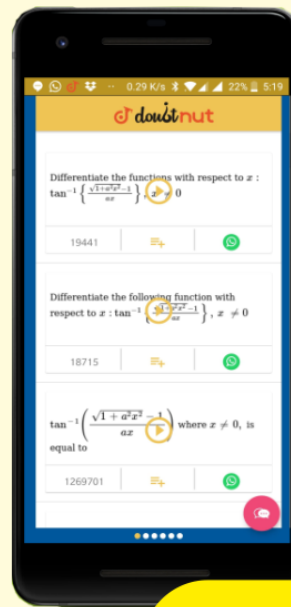
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