





## MATHS

# NCERT - NCERT MATHEMATICS(ENGLISH)

## **RATIONAL NUMBERS**

Exercise 12

1. Find ten rational numbers between

 $\frac{-2}{5}$  and  $\frac{1}{2}$ .



#### **3.** Write five rational numbers greater than 2.





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



Solved Examples

1. Find 
$$\frac{-4}{5} \times \frac{3}{7} \times \frac{15}{16} \times \left(\frac{-14}{9}\right)$$
  
A.  $\frac{2}{6}$   
B.  $\frac{2}{8}$ 

C. 
$$\frac{2}{10}$$
  
D.  $\frac{1}{2}$ 

#### Answer: D



2. Write the additive inverse of the following:

(i) 
$$\frac{-7}{19}$$
 (ii)  $\frac{21}{112}$ 

**3.** Verify that 
$$(-x)$$
 is the as x for (i)  $x = \frac{13}{17}$  (ii)  $x = \frac{-21}{31}$ 

**4.** Find 
$$rac{2}{5} imesrac{-3}{7}-rac{1}{14}-37 imesrac{3}{5}$$

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

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#### 6. Write any 3 rational numbers between and

0.



 $\frac{1}{4}$  and  $\frac{1}{2}$ .

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#### Exercise 11

1. Multiply 
$$\frac{6}{13}$$
 by the reciprocal of  $\frac{-7}{16}$ .  
A.  $-\frac{96}{91}$   
B.  $-\frac{34}{91}$   
C.  $\frac{96}{91}$   
D.  $\frac{34}{91}$ 

Answer: A



2. 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.



3. Fill in the blanks. (i) Zero has reciprocal. (ii)

The numbers and are their own reciprocals (iii)

The reciprocal of (-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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7. Tell what property allows you to compute

$$rac{1}{3} imes igg(6 imes rac{4}{5}igg)asigg(rac{1}{3} imes 6igg) imes rac{4}{3}.$$

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8. Verify that 
$$(-x) = x$$
 for .(i)  $x = rac{11}{15}$  (ii)  $x = -rac{13}{17}$ 





**11.** Is  $\frac{8}{9}$  the multiplicative inverse of  $-1\frac{1}{8}$ ? Why or Why Not? **Watch Video Solution**