

MATHS

NCERT - NCERT Maths(Hinglish)

RATIONAL NUMBERS

Exercise 1 2

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



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



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

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

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



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7. Write five rational numbers which are smaller than 2.



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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*



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2. Write the additive inverse of the following:

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



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

(ii) $x = \frac{-21}{31}$



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



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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.



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7. Find any ten rational numbers between

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



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



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9. Find three rational numbers between

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



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Exercise 1 1

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



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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.



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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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4. Using appropriate properties find.

(i) $-\frac{2}{3} \times \frac{3}{5} + \frac{5}{2} - \frac{3}{5} \times \frac{1}{6}$

(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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5. Name the property under multiplication used in each of the following.

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

$$(ii) \frac{13}{17} \times \frac{-2}{7} = \frac{-2}{7} \times \frac{-13}{17}$$

$$(iii) \frac{-19}{29} \times \frac{29}{-19} = 1$$



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6. 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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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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8. Verify that $(-x) = x$ for (i) $x = \frac{11}{15}$ (ii)

$$x = -\frac{13}{17}$$



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9. 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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10. Is 0.3 the multiplicative inverse of $3\frac{1}{3}$?

Why or why not?



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11. Is $\frac{8}{9}$ the multiplicative inverse of $-1\frac{1}{8}$?

Why or Why Not?



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