

Ques No.

Question

1

NCERT - CLASS 8 - CHAPTER 1 RATIONAL NUMBERS - EXERCISE 1.1 - Q 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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NCERT - CLASS 8 - CHAPTER 1 RATIONAL NUMBERS - EXERCISE 1.1 - Q 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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NCERT - CLASS 8 - CHAPTER 1 RATIONAL NUMBERS - EXERCISE 1.1 - Q 3

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

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NCERT - CLASS 8 - CHAPTER 1 RATIONAL NUMBERS - EXERCISE 1.1 - Q 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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Name the property under multiplication used in each of the following. (i)

$$\frac{-4}{5} \times 1 = 1 \times \frac{-4}{5} \quad \text{(ii)}$$

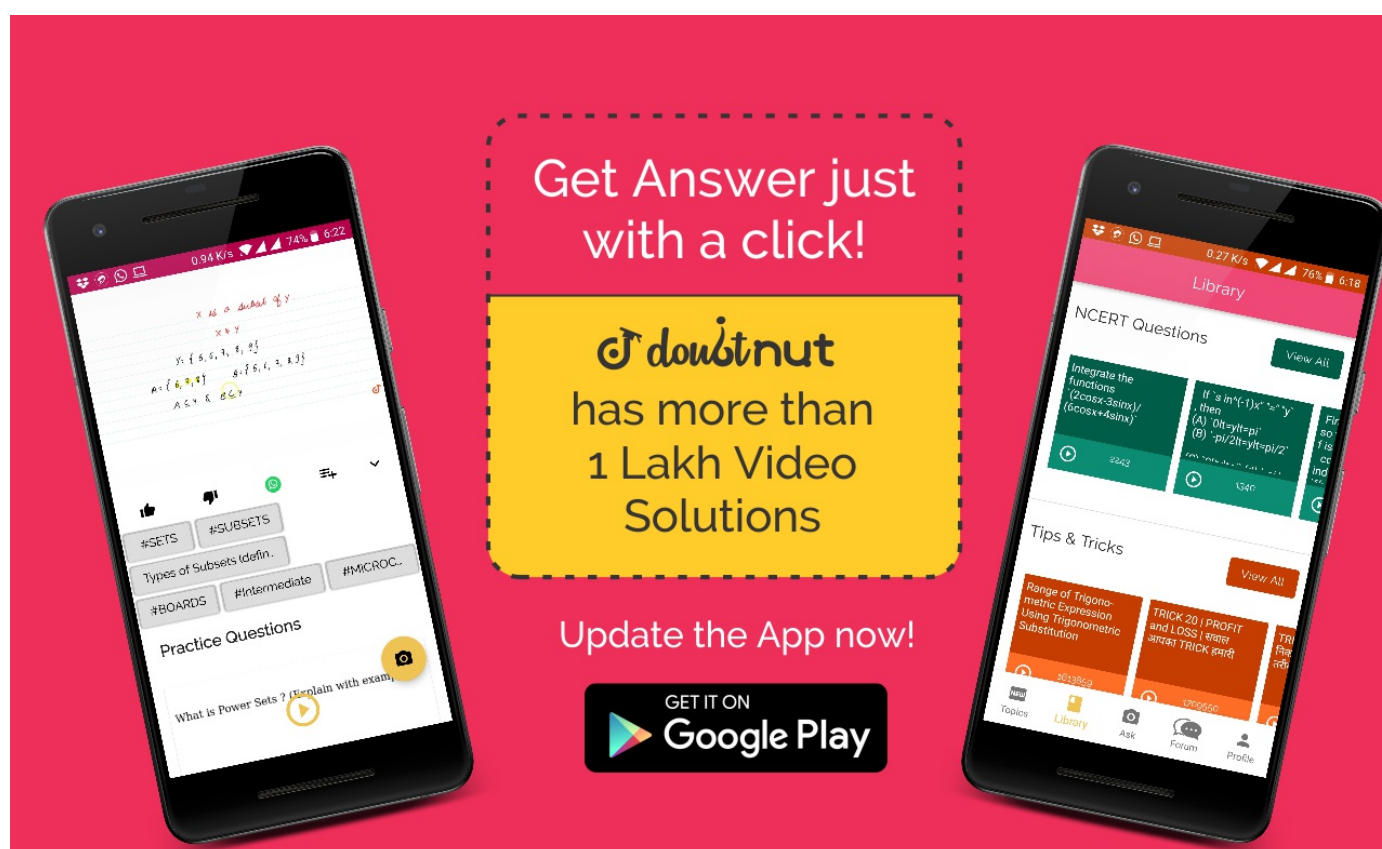
$$\frac{13}{17} \times \frac{-2}{7} = \frac{-2}{7}$$

$$\times \frac{-13}{17}$$

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

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NCERT - CLASS 8 - CHAPTER 1 RATIONAL NUMBERS - EXERCISE 1.1 - Q 6

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

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NCERT - CLASS 8 - CHAPTER 1 RATIONAL NUMBERS - EXERCISE 1.1 - Q 7

Tell what property allows you to compute

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$$\frac{1}{3}$$

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

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NCERT - CLASS 8 - CHAPTER 1 RATIONAL NUMBERS - EXERCISE 1.1 - Q 8

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

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NCERT - CLASS 8 - CHAPTER 1 RATIONAL NUMBERS - EXERCISE 1.1 - Q 9

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

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NCERT - CLASS 8 - CHAPTER 1 RATIONAL NUMBERS - EXERCISE 1.1 - Q 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.

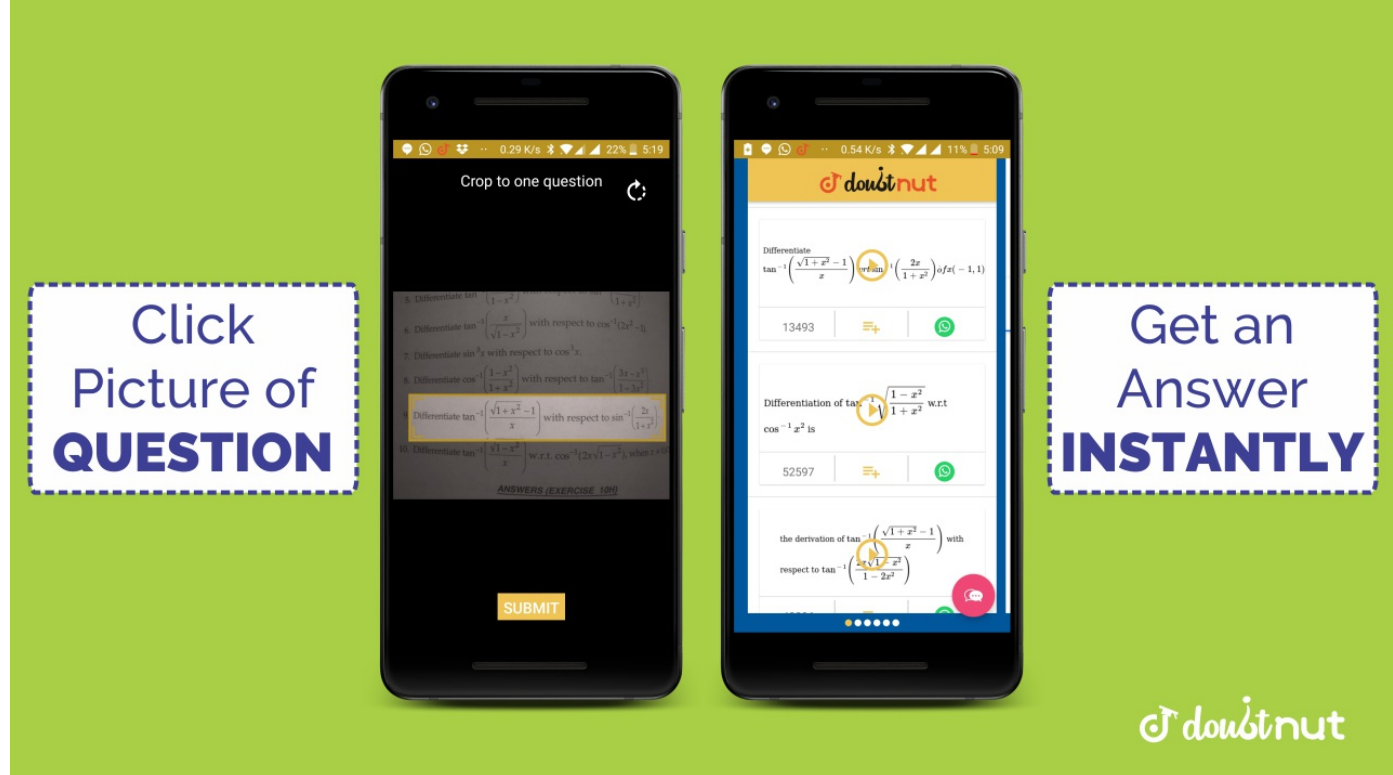
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NCERT - CLASS 8 - CHAPTER 1 RATIONAL NUMBERS - EXERCISE 1.1 - Q 11

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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NCERT - CLASS 8 - CHAPTER 1 RATIONAL NUMBERS - EXERCISE 1.2 - Q 1

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

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NCERT - CLASS 8 - CHAPTER 1 RATIONAL NUMBERS - EXERCISE 1.2 - Q 2

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

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Write five rational numbers which are smaller than 2.

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

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NCERT - CLASS 8 - CHAPTER 1 RATIONAL NUMBERS - EXERCISE 1.2 - Q 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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Write five rational numbers greater than 2.

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

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NCERT - CLASS 8 - CHAPTER 1 RATIONAL NUMBERS - SOLVED EXAMPLES - Q 1

Find

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

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NCERT - CLASS 8 - CHAPTER 1 RATIONAL NUMBERS - SOLVED EXAMPLES - Q 2

Find

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

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

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

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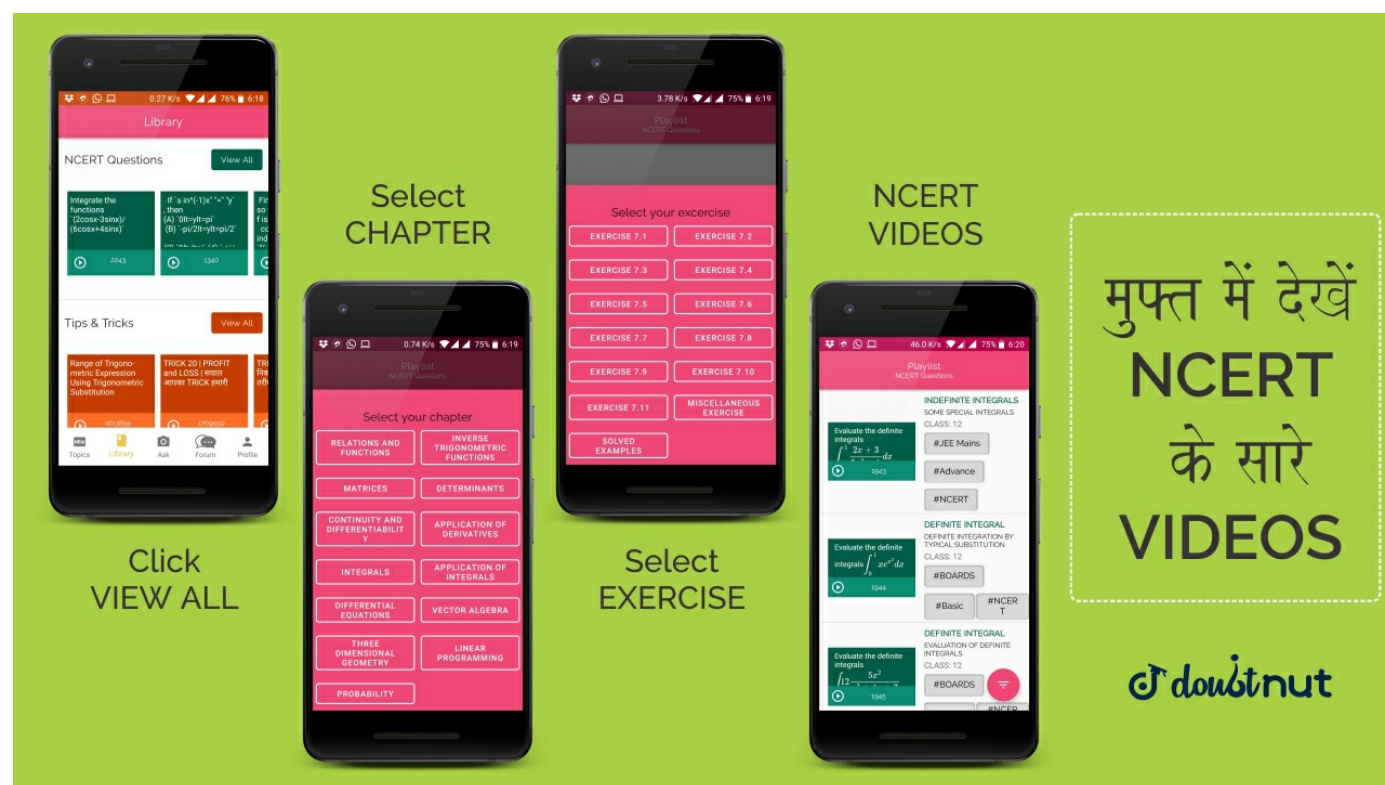
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NCERT - CLASS 8 - CHAPTER 1 RATIONAL NUMBERS - SOLVED EXAMPLES - Q 5

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

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Write any 3 rational numbers between and 0.

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

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

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NCERT - CLASS 8 - CHAPTER 1 RATIONAL NUMBERS - SOLVED EXAMPLES - Q 9

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

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