

[Download Doubtnut Now](#)**EXERCISE 9.1 - Question No. 1**

List five rational numbers between: (i)  $-1$  and  $0$  (ii)

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

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Write four more rational numbers in each of the following patterns

: (i)  $\frac{-3}{5}, \frac{-6}{10}, \frac{-9}{15}, \frac{-12}{20}, \dots$  (ii)  $\frac{-1}{4}, \frac{-2}{8}, \frac{-3}{12}, \dots$  (iii)

$$\frac{-1}{6}, \frac{2}{-12}, \frac{3}{-18}, \frac{4}{-24}, \dots \quad (\text{iv}) \quad \frac{-2}{3}, \frac{2}{-3}, \frac{4}{-6}, \frac{6}{9}, \dots$$

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### EXERCISE 9.1 - Question No. 3

Give four rational numbers equivalent to: (i)  $\frac{-2}{7}$  (ii)  $\frac{5}{-3}$  (iii)  $\frac{4}{9}$

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### EXERCISE 9.1 - Question No. 4

Draw the number line and represent the following rational numbers

on it : (i)  $\frac{3}{4}$  (ii)  $\frac{-5}{8}$  (iii)  $\frac{-7}{3}$  (iv)  $\frac{7}{8}$

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**EXERCISE 9.1 - Question No. 5**

The points P, Q, R, S, T, U, A and B on the number line are such that,  $TR = RS = SU$  and  $AP = PQ = QB$ . Name the rational numbers represented by P, Q, R and S.

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**EXERCISE 9.1 - Question No. 6**

Which of the following pairs represent the same rational number ?

(i)  $\frac{-7}{21}$  and  $\frac{3}{9}$  (ii)  $\frac{16}{20}$  and  $\frac{20}{-25}$  (iii)  $\frac{-2}{-3}$  and  $\frac{2}{3}$  (iv)

$\frac{-3}{-5}$  and  $\frac{-12}{20}$  (v)  $\frac{8}{-5}$  and  $\frac{-24}{15}$  (vi)  $\frac{1}{3}$  and  $\frac{-1}{9}$  (vii)

$\frac{-5}{-9}$  and  $\frac{5}{-9}$

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**EXERCISE 9.1 - Question No. 7**

Rewrite the following rational numbers in the simplest form : (i)

$$\frac{-8}{6} \quad \text{(ii)} \quad \frac{25}{45} \quad \text{(iii)} \quad \frac{-44}{72} \quad \text{(iv)} \quad \frac{-8}{10}$$

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**EXERCISE 9.1 - Question No. 8**

7). Rewrite the following rational numbers in the simplest form: (i)

$$-\frac{8}{6} \quad \text{(ii)} \quad \frac{25}{45} \quad \text{(iii)} \quad -\frac{44}{72} \quad \text{(iv)} \quad -\frac{8}{10} \quad (8).$$

Fill in the boxes with the correct symbol out of and gt;, and lt;, and =. (i) and nbsp; and nbsp;

and nbsp; and nbsp; and nbsp; and nbsp; and nbsp; (ii) and nbsp;

and (iii) and  
and (iv) and (v) and  
and (vi) and  
and (vii)

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#### EXERCISE 9.1 - Question No. 9

Which is greater in each of the following: (i)  $\frac{2}{3}$ ,  $\frac{5}{2}$  (ii)  $\frac{-5}{6}$ ,  $\frac{-4}{3}$   
(iii)  $\frac{-3}{4}$ ,  $\frac{2}{-3}$  (iv)  $\frac{-1}{4}$ ,  $\frac{1}{4}$  (v)  $(-3)\frac{2}{7}$ ,  $(-3)\frac{4}{5}$

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#### EXERCISE 9.1 - Question No. 10

Write the following rational numbers in ascending order: (i)

$$\frac{-3}{5}, \frac{-2}{5}, \frac{-1}{5} \quad \text{(ii)} \quad \frac{-1}{3}, \frac{-2}{9}, \frac{-4}{3} \quad \text{(iii)} \quad \frac{-3}{7}, \frac{-3}{2}, \frac{-3}{4}$$

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### EXERCISE 9.2 - Question No. 1

Find the sum : (i)  $\frac{5}{4} + \left(\frac{-11}{4}\right)$  (ii)  $\frac{5}{3} + \frac{3}{5}$  (iii)  $\frac{-9}{10} + \frac{22}{15}$  (iv)  $\frac{-9}{10} + \frac{22}{15}$  (v)  $\frac{-8}{19} + \frac{(-2)}{3}$  (vi)  $\frac{-2}{3} + 0$  (vii)  $(-2)\frac{1}{3} + (4)\frac{3}{5}$

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### EXERCISE 9.2 - Question No. 2

Find (i)  $\frac{7}{24} - \frac{17}{36}$  (ii)  $\frac{5}{63} - \left(\frac{-6}{21}\right)$  (iii)  $\frac{-6}{13} - \frac{7}{11}$  (v)  
(-2)  $\frac{1}{9} - 6$

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### EXERCISE 9.2 - Question No. 3

Find the product: (i)  $\frac{9}{2} \times \left(\frac{-7}{4}\right)$  (ii)  $\frac{3}{10} \times (-9)$  (iii)  
 $\frac{-6}{5} \times \frac{9}{11}$  (iv)  $\frac{3}{7} \times \left(\frac{-2}{5}\right)$  (v)  $\frac{3}{-5} \times \frac{-5}{3}$

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### EXERCISE 9.2 - Question No. 4

Find the value of: (i)  $(-4) \div \frac{2}{3}$  (ii)  $\frac{-3}{5} \div 2$  (iii)  $\frac{-4}{5} \div (-3)$   
(iv)  $\frac{-1}{8} \div \frac{3}{4}$  (v)  $\frac{-2}{13} \div \frac{1}{7}$  (vi)  $\frac{-7}{12} \div \left(\frac{-2}{13}\right)$  (vii)  
 $\frac{3}{13} \div \left(\frac{-4}{65}\right)$

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#### SOLVED EXAMPLES - Question No. 1

Reduce  $\frac{-45}{30}$  to the standard form

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#### SOLVED EXAMPLES - Question No. 2

Reduce to standard form : (i)  $\frac{36}{-24}$  (ii)  $\frac{-3}{-15}$



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**SOLVED EXAMPLES - Question No. 3**

Do  $\frac{4}{-9}$  and  $\frac{16}{-36}$  represent the same rational number ?

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**SOLVED EXAMPLES - Question No. 4**

List three rational numbers between 2 and 1.

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**SOLVED EXAMPLES - Question No. 5**

Write four more numbers in the following pattern

$$\frac{-1}{3}, \frac{-2}{6}, \frac{-3}{9}, \frac{-4}{12}$$

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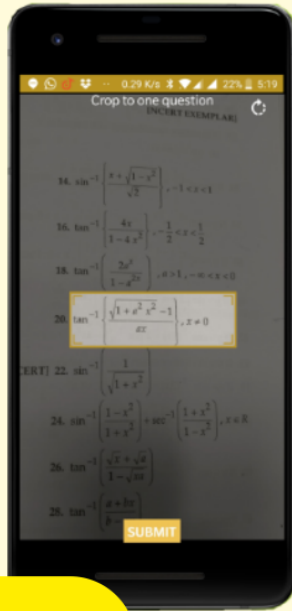
**SOLVED EXAMPLES - Question No. 6**

Satpal walks  $\frac{2}{3} km$  from a place  $P$ , towards east and then from there (1)  $\frac{5}{7} km$  towards west. Where will he be now from  $P$  ?

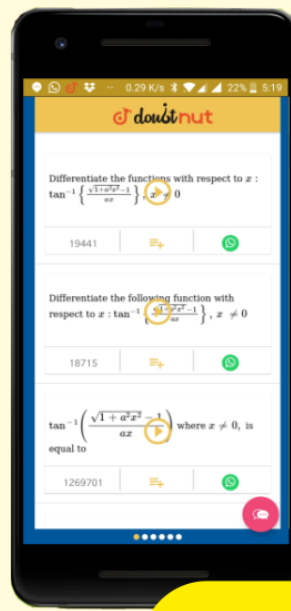
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