



Exercise 1F

Q1

Answer :

$$\begin{aligned}\text{Required number} &= \frac{1}{2} \left(\frac{1}{4} + \frac{1}{3} \right) \\ &= \frac{1}{2} \left(\frac{3+4}{12} \right) \\ &= \left(\frac{1}{2} \times \frac{7}{12} \right) \\ &= \frac{7}{24}\end{aligned}$$

Q2

Answer :

$$\begin{aligned}\text{Required Number} &= \frac{1}{2} \times (2 + 3) \\ &= \frac{5}{2}\end{aligned}$$

Q3

Answer :

$$\begin{aligned}\text{Required number} &= \frac{1}{2} \times \left(\frac{-1}{3} + \frac{1}{2} \right) \\ &= \frac{1}{2} \times \left(\frac{-2+3}{6} \right) \\ &= \frac{1}{2} \times \frac{1}{6} \\ &= \frac{1}{12}\end{aligned}$$

Q4

Answer :

$$\text{Required number} = \frac{1}{2} \times (-3 - 2)$$

$$= \frac{1}{2} (-5)$$

$$= \frac{-5}{2}$$

We know :

$$-3 < \frac{-5}{2} < -2$$

$$\text{Rational number between } -3 \text{ and } \frac{-5}{2} = \frac{1}{2} \times \left(-3 - \frac{5}{2}\right)$$

$$= \frac{1}{2} \left(\frac{-6-5}{2}\right)$$

$$= \frac{1}{2} \times \frac{-11}{2}$$

$$= \frac{-11}{4}$$

Thus, the required numbers are $\frac{-5}{2}$ and $\frac{-11}{4}$.

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