Exercise 1F

Q1

Answer :

$$\text{Required number} = \frac{1}{2}\left(\frac{1}{4}+\frac{1}{3}\right)$$

$$= \frac{1}{2}\left(\frac{3+4}{12}\right)$$

$$= \left(\frac{1}{2}\times\frac{7}{12}\right)$$

$$= \frac{7}{24}$$

Q2

Answer :

$$\text{Required Number} = \frac{1}{2}\times\left(2+3\right)$$

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

Q3

Answer :

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

$$= \frac{1}{2}\times\left(\frac{-2+3}{6}\right)$$

$$= \frac{1}{2}\times\frac{1}{6}$$

$$= \frac{1}{12}$$

Q4

Answer :

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

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

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

We know :

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

Rational number between -3 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 $\frac{-11}{4}$.

********** END **********