Exercise 1H

Q19

Answer :

(d) $\frac{-5}{6}$

Let $\frac{4}{9} \div \frac{a}{b} = \frac{-8}{15}$

Now,

$$\frac{4}{9} \times \frac{b}{a} = \frac{-8}{15}$$

$$\Rightarrow \frac{b}{a} = \frac{-8}{15} \times \frac{9}{4}$$

$$= \frac{-6}{5}$$

$$\Rightarrow \frac{a}{b} = \frac{5}{-6}$$

$$= \frac{-5}{6}$$

Hence, the missing number is $\frac{-5}{6}$.

Q20

Answer :

(c) $\frac{5}{9}$

Additive inverse of $\frac{-5}{9}$ is $\frac{5}{9}$.

Q21

Answer :

(c) $\frac{-4}{3}$

Reciprocal of $\frac{-3}{4}$ is $\frac{4}{-3}$, **i.e.**, $\frac{-4}{3}$.

Q22

Answer :

(d) $\frac{-5}{24}$

Rational number between $\frac{-2}{3}$ and $\frac{1}{4} = \frac{1}{2}\left(\frac{-2}{3} + \frac{1}{4}\right)$

$= \frac{1}{2}\left(\frac{-8+3}{12}\right)$

$= \frac{1}{2} \times \frac{-5}{12}$

$= \frac{-5}{24}$

Q23

Answer :

(b) is a negative rational number

The reciprocal of a negative rational number is a negative rational number.

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