



Exercise 1H

Q19

**Answer :**

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

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

Now,

$$\begin{aligned}\frac{4}{9} \times \frac{b}{a} &= \frac{-8}{15} \\ \Rightarrow \frac{b}{a} &= \frac{-8}{15} \times \frac{9}{4}\end{aligned}$$

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

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

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

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.

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