

NCERT Exemplar Solutions by Dev Anoop (Bathinda)

- ① A number which can be expressed as $\frac{p}{q}$ where p, q are integers and $q \neq 0$ is a rational number.
- ② A number of the form $\frac{p}{q}$ is said to be a rational number if p and q are integers and $q \neq 0$.
- ③ The numerical expression $\frac{3}{8} + \frac{-5}{7} = \frac{-19}{56}$ shows that rational numbers are closed under addition.
- ④ rational numbers are closed under division is not true.
- ⑤ $-\frac{3}{8} + \frac{1}{7} = \frac{1}{7} + (-\frac{3}{8})$ is an example to show that addition of rational numbers is commutative.
- ⑥ (a)
- ⑦ Zero is identity for addition of Rational Numbers.
- ⑧ One is identity for multiplication of Rational Numbers.