

# Mathematics

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(Chapter – 1) (Number Systems)(Exemplar Problems)

(Class – IX)

## Exercise 1.1

Write the correct answer in each of the following:

### Question 6:

Which of the following is irrational?

- (A)  $\sqrt{\frac{4}{9}}$       (B)  $\sqrt{\frac{12}{3}}$       (C)  $\sqrt{7}$       (D)  $\sqrt{81}$

### Answer 6:

(C)  $\sqrt{7}$ .

Solution:

As  $\sqrt{\frac{4}{9}} = \frac{2}{3}$ , a rational number.

$\sqrt{\frac{12}{3}} = \sqrt{4} = 2$ , a rational number.



and  $\sqrt{81} = 9$ , a rational number.