

SATISH CHANDRA MEMORIAL SCHOOL
STD- VIII
CLASS TEST
CH: RATIONAL NUMBERS

F.M: 12

Choose the correct answer from the given four options.

1. Which statement is true?

- A) Reciprocal of every rational number is a rational number.
- B) The square roots of all positive integers are irrational numbers.
- C) The product of a rational and an irrational number is an irrational number.
- D) The difference of a rational number and an irrational number is an irrational number. (1)

2. The reciprocal of $\frac{-3}{8} \times \left(\frac{-7}{13}\right)$ is

- A) $\frac{104}{21}$
- B) $\frac{-104}{21}$
- C) $\frac{21}{104}$
- D) $\frac{-21}{104}$ (1)

3. Decimal representation of a rational number cannot be

- A) terminating
- B) non-terminating
- C) non-terminating repeating
- D) non-terminating non-repeating (1)

4. What number should be added to $\frac{7}{12}$ to get $\frac{4}{15}$? (2)

5. Find six rational numbers between $\frac{1}{4}$ and $\frac{1}{2}$. (2)

6. Simplify using appropriate property of rational numbers: $\left\{1\frac{2}{5} \times \left(\frac{-2}{7}\right)\right\} + \left\{1\frac{2}{5} \times \frac{6}{14}\right\}$ (2)

7. Write

- (i) The rational number that does not have a reciprocal.
- (ii) The rational numbers those are equal to their reciprocals.
- (iii) The rational number that is equal to its negative. (3)