# VIDYA BHAWAN, BALIKA VIDYAPITH
### Shakti Utthan Ashram, Lakhisarai-811311(Bihar)
### (Affiliated to CBSE up to +2 Level)

CLASS: VIII          SUB.: MATHS (NCERT BASED)          DATE: 15-10-2020

Question 1. Write.

(i) The rational number that does not have a reciprocal.

(ii) The rational numbers that are equal to their reciprocals.

(iii) The rational number that is equal to its negative.

 2. Write five rational numbers which are smaller than 2.

 3. Write five rational numbers greater than −2.

 Fill in the blanks.

(i) Zero has _____ reciprocal.

(ii) The numbers _____ and _____ are their own reciprocals.

(iii) The reciprocal of −5 is _____.

(iv) Reciprocal of 1/x, where $x \neq 0$ is _____.

(v) The product of two rational numbers is always a _____.

(vi) The reciprocal of a positive rational number is _____.

4. If the cost of $4\frac{1}{2}$ litres of milk is ₹89.50 find the cost of 1 litre of milk.

5. A fruit seller buys some oranges at the rate of ₹ 5 per orange. He also buys an equal number of bananas at the rate of ₹ 2 per banana. He makes a profit of 20% on oranges and a profit of 15% on bananas. In the end, he sold all the fruits. If he earned a profit of ₹ 390, find the number of oranges.

 5. A steamer goes downstream from one point to another in 7 hours. It covers the same distance upstream in 8 hours. If the speed of stream be 2 km/h, find the speed of the steamer in still water and the distance between the ports.