

**Periodic Assessment Test
Mathematics**

Std-7
Time : 1 Hour

December-2020
Marks : 25

L.O. Identifies the ratio in proportion such as 15, 45, 40, 120. $\frac{15}{45}$ and $\frac{40}{120}$ are equivalent.

Q-1 Do as directed.

1. What is the equivalent ratio of $\frac{1}{3}$? 1
(a) $\frac{3}{1}$ (B) $\frac{2}{3}$ (C) $\frac{2}{6}$ (D) $\frac{3}{2}$
2. Find the ratio of Rs. 10 to 50 Paise. 2
3. A bike covers 150 km distance with 3 liters of petrol than what distance it will cover with 5 liters of petrol? 2

L.O. Converts fraction and decimal fraction into percentage as well as percentage into fraction and decimal fraction.

Q-2 Answer the following questions.

1. Convert the given fractional number to percentage : $\frac{4}{5}$ 1
2. Convert the given decimal fraction to percentage : 0.04 1
3. Convert percentage to decimal fraction : 40% 1
4. Find 15% of 240. 2

L.O. Calculates Interest rate of profit – loss percentage as well as simple interest.

Q-3 Solve the following.

1. Ramila brought a bicycle for Rs. 2000 and sold it for Rs. 2500. Find the gain percentage. 2
2. Jaimin takes Rs. 10000 at 12% per year as rate of interest, for 2 years. How much interest he has to pay at the end of two years? 3

L.O. Understands about rational numbers and calculates rational numbers in different situations.

Q-4 Do as directed.

1. Which of these amounts are negative rational numbers : $-\frac{2}{3}$, $\frac{2}{3}$, $-\frac{2}{3}$ 1
2. Reduce $\frac{-36}{48}$ to standard form. 2
3. Write two rational numbers between $-\frac{1}{2}$ and $\frac{2}{3}$ 2

L.O. Calculates basic four actions of rational numbers.

Q-5 Answer the questions as required.

1. The product of a rational number with its reciprocal is _____ . 1
2. Add : $\frac{2}{3} + \frac{3}{2}$ 2
3. Multiply : $-\frac{6}{5} \times \frac{9}{11}$ 2