

**Periodical Assessment Test
Mathematics**

Std: 8
Time: 1 hour

July, 2020
Total Marks: 25

*L.O.(Learning Outcome)

L.O. Solves the equation when there is linear equation on one side and number on the other side.

Q. 1 Answer the following questions.

1. $x + 3 = 5$, then what is the value of x ? [1]
(a) 2 (b) 8 (c) -2 (d) -8
2. $-\frac{8}{5} + x = \frac{2}{5}$, then find the value of x . [2]
3. $1.2 = \frac{y}{10}$, then find the value of y . [2]

L.O. Converts the equation into simple form and solves it.

Q. 2 Find out the value of x in the equations given below.

1. $3x - 5 = 3 + x$ [2]
2. $\frac{x}{2} + \frac{5}{9} = \frac{2x}{3}$ [3]

L.O. Generalizes the properties of addition, subtraction, multiplication and division of rational numbers through examples/patterns and gives the simplified form by using the properties.

Q. 3 Answer the given questions.

1. If a and b are integers, then which property is shown in $a + b = b + a$ [1]
2. $\frac{8}{5} \times \underline{\hspace{2cm}} = 1$ [1]
3. Explain by giving example - [3]
Properties of the group are not followed in subtraction of rational numbers.

L.O. Finds out all the possible rational numbers between given rational numbers.

Q. 4 Find out the appropriate answer for the given questions.

1. Write down three rational numbers between $\frac{8}{5}$ and $\frac{7}{3}$ [3]
2. Write down two rational numbers between $\frac{-2}{3}$ and $\frac{-1}{3}$ [2]

L.O. Solves the practical sums related to one variable linear equation.

Q. 5 Answer the given questions.

1. The ratio of present age of Ramesh and Mahesh is 5 : 7. After four years the ratio of their age will be 3 : 4. Find out their present age. [3]
2. The addition of three successive multiples of 9 is 81. Find out the multiples. [2]