

**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]