## Grade 9

## Mathematics

## Covid -19 - weekly school

January 3<sup>rd</sup> week

## Fraction

- Simplify the fractions given below.
- 1. 1/5 of 5/2

The problem can be solved using multiplication (x) for "of".

2. 2/5 of 3 1/8

First, convert the mixed number in to improper fraction and then use the mathematical expression multiplication for the term "of" to solve the problem.

25/8 x 2/5

Simplifying the factors of the denominator and the numerator,

$$= 25/8 \times 2/5 = 5/4$$

= 1 1/4

3. How much is 1/5 of 200 centimeters?

= 1/5 of 200cm

= 200 cm x 1/5

- = 40 cm
- Do the exercise 3.1 like this.
- The BODMAS rule when simplify a numerical expression with several operations.
  - Fist, simplify all the expressions within brackets.
  - Then, simplify powers and the expressions with " of"
  - Next, multiplication and division. If both these operations are involved, priority is given from left to right.
  - Finally addition and subtraction. Operations are involved, priority is given from left to right.

01. 1/2 + 9/8 x 2/9

It is clear that multiplication should be performed first according to the BODMAS rule.

02. Simplify and write the answer in the simplest form. 6/11 of  $[1/4 + 2/3] \div 3/4$ Firs simplify the expression within brackets.

= [6/11 of 11/12] ÷ 3/4

Then simplify the tern " of"

= [6/11 of 11/12] ÷ 3/4

 $= 1/2 \div 3/4$ 

Next division

 $= 1/2 \times 4/3 = 2/3$ 

01. A father gave 1/2 of his land to his son and 2/3 of the remaining land to his daughter and he kept the rest of the land for his own use. What is the extent of land did the father give to the daughter and the son?

The portion received by the son = 1/2Remaining land = 1/2The portion received by the daughter = 2/3 of 1/2

The sum of the plots of land given to both.

> Do the exercise 3.2 like this.