CLASS IX (2019-20) Holidays' Homework Mathematics

Note: Revise all the syllabus done in class so far.

TASK 1:

Complete all the assignments on EDUCOSOFT for the chapters done so far.

Ch 1: Number SystemCh 3: Co-ordinate GeometryCh 2: PolynomialsCh 4: Linear equations in two variables

TASK 2: Tickle your brain, surf the net and do the following creatively:

Try Maths Craft: 1)Make a beautiful paper snowflake and explore the mathematical concepts in it. (Roll nos 1 - 25) 2) Make a beautiful fractal card and explore the mathematical concepts in it. (Roll nos 25 onwards)

You can refer the following link:

http://mathematicsprojects.blogspot.com/?m=1

TASK 3:

DRIP RATE:

Nurses need to calculate the drip rate, D, in drops per minute for infusions.

They use the formula D = $\frac{d \times v}{60 n}$ where

d is the drop factor measured in drops per millilitre(ml)

v is the volume in ml of the infusion

n is the number of hours the infusion is required to run.

Question 1 : A nurse wants to double the time an infusion runs for.

Describe precisely how D changes if n is doubled but d and v do not change.

Question 2 : Nurses also need to calculate the volume of the infusion, v, from the drip rate, D.

An infusion with a drip rate of 50 drops per minute has to be given to a patient for 3 hours. For this infusion the drop factor is 25 drops per millilitre.

What is the volume in ml of the infusion?