S.D. Public School, Pitampura
Holidays Homework (2022-23)
Class – IX
MATHEMATICS

A) Art Integration

Make a collage of pictures of objects or places where tessellation pattern can be seen.

On an A4 sheet , Write a short note on the mathematical concepts behind tessellations.

B) Complete the Educosoft assessments of the chapters done so far.

C) Assignment(To be done on A4 sheets)

1) Express 1.8181… in the form p/q where p and q are integers and $q \neq 0$

2) Find the value of $\sqrt{(3)}^{-2}$.

3) Evaluate : $(27)^{-\frac{1}{3}} . (27)^{-\frac{1}{3}} \left[27^{\frac{1}{3}} - 27^{\frac{2}{3}} \right]$.

4) Plot the points A(1, 4), B(-2, 1) and C(4, 1). Name the figure so obtained on joining them in order and also, find its area.

5) Find 'a', if linear equation $3x - ay = 6$ has one solution as (4, 3).

6) Find the coordinates of the point :

(i) Which lies on both axes (ii) Whose abscissa is 2 and which lies on the x –axis

7) Rationalize and solve:
   (i) 1/(√3-1)
   (ii) 6/(3√2-2√3)
   (iii) 1/(√6+√5)