BAL BHARATI PUBLIC SCHOOL, PITAMPURA DELHI – 110034

SUBJECT:-MATHEMATICS

CHAPTER: - FRACTIONS AND DECIMALS

PART-4

TOPIC: Division of decimals

STEP 1:GUIDELINES

Dear Students

You have learnt about multiplication of decimal numbers in the previous lesson plan. In this lesson, we will learn about the division of decimals.
Kindly refer to the following link to download the NCERT chapter of this topic in pdf:
http://ncert.nic.in/textbook/textbook.htm?gemh1=2-15

STEP 2: Division of Decimals

➤ To divide a decimal number by 10,100 or 1000 shift the digits in the decimal number to the left by as many places as there are zeroes over 1to get the quotient .

 For example $23.9 \div 10 = 2.39$, $23.9 \div 100 = 0.239$, $23.9 \div 1000 = 0.0239$

➤ To divide two decimal numbers, first convert them into fractions by removing their decimal points and then multiply them as two fractions.

For example: a. $2.14 \div 0.2$　　　　　　　b. $76.5 \div 0.05$

$$= \frac{214}{100} \div \frac{2}{10}$$　　　　　　　$$= \frac{765}{10} \div \frac{5}{100}$$

$$= \frac{214}{100} \times \frac{10}{2}$$　　　　　　　$$= \frac{765}{10} \times \frac{100}{5}$$

$$= \frac{\cancel{214}^{107}}{\cancel{100}} \times \frac{\cancel{10}}{\cancel{2}_1} \qquad\qquad = \frac{153\cancel{765}}{\cancel{10}} \times \frac{\cancel{100}}{\cancel{5}_1}$$

$$= \frac{107}{10} = 10.7 \qquad\qquad = 1530$$

Kindly refer to the following link to understand more about division of decimals:

https://www.examfear.com/free-video-lesson/Class-7/Maths/Fractions-and-Decimals/part-23/Maths_Fractions_and_Decimals_part_23_(Division_of_Decimal_Numbers).htm

STEP 7: Assignment

Do the following questions from NCERT Exercise 2.7 in your Maths notebook.

Q1 to Q5 attempt even parts,Q6

STEP 8 : Practice Ques (Do in Practice notebook)

Q1) Divide the decimals by 10 or higher powers of 10.

- $4.7 \div 10$
- $6.3 \div 100$
- $2.8 \div 1000$
- $321.6 \div 100$
- $417.305 \div 100$

Q2) Divide the decimals (dividend) by a decimal number:

(a) $0.06794 \div 0.79$

(b) 7.104 ÷ 0.74

(c) 0.3234 ÷ 19.6

(d) 11.945 ÷ 0.05

(e) 40.68 ÷ 0.3

(f) 2.001 ÷ 0.003