# Mathematics

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(Chapter -1) (Number Systems) (Exercise 1.3)

(Class - 9)

#### Question 1:

Write the following in decimal form and say what kind of decimal expansion each has:

(i) 
$$\frac{36}{100}$$

(ii) 
$$\frac{1}{11}$$
 (v)  $\frac{2}{11}$ 

(iii) 
$$4\frac{1}{8}$$
  
(vi)  $\frac{329}{328}$ 

(iv) 
$$\frac{3}{13}$$

Answer 1:  
(i) 
$$\frac{36}{100} = 0.3$$
, Terminating,

(iii) 
$$\frac{1}{11} = 0.\overline{09}$$
, Recurring & Non-terminating.

(iii) 
$$4\frac{1}{8} = 4.125$$
, Terminating.

(iv) 
$$\frac{3}{13} = 0.\overline{230769}$$
, Recurring & Non-terminating.

(v) 
$$\frac{2}{11} = 0.\overline{18}$$
, Recurring & Non-terminating.

(vi) 
$$\frac{329}{400}$$
 = 0.8225, Terminating.

#### Question 2:

You know that  $\frac{1}{7} = 0.\overline{142857}$ . Can you predict what the decimal expansions of  $\frac{2}{7}$ ,  $\frac{3}{7}$ ,  $\frac{4}{7}$ ,  $\frac{5}{7}$ ,  $\frac{6}{7}$  are, without actually doing the long division? If so, how?

[Hint: Study the remainders while finding the value of \( \frac{1}{2} \) carefully.]

#### Answer 2:

Without actual long division, the decimal expansions of  $\frac{2}{7}$ ,  $\frac{3}{7}$ ,  $\frac{4}{7}$ ,  $\frac{5}{7}$ ,  $\frac{6}{7}$  are as follows:

$$\frac{2}{7} = 2 \times \frac{1}{7} = 2 \times 0.\overline{142857} = 0.\overline{285714}$$

$$\frac{3}{7} = 3 \times \frac{1}{7} = 3 \times 0.\overline{142857} = 0.\overline{428571}$$

$$\frac{4}{7} = 4 \times \frac{1}{7} = 4 \times 0.\overline{142857} = 0.\overline{571428}$$

$$\frac{5}{7} = 5 \times \frac{1}{7} = 5 \times 0.\overline{142857} = 0.\overline{714285}$$

$$\frac{6}{7} = 6 \times \frac{1}{7} = 6 \times 0.\overline{142857} = 0.\overline{857142}$$

Express the following in the form  $\frac{p}{q}$ , where p and q are integers and  $q \neq 0$ .

$$(ii)$$
 0.47

 $10x = 6.6666 \dots$ 

Let 
$$x = 0.\overline{6}$$
  
 $\Rightarrow x = 0.6666...$  ... (i)  
Multiplying equation (i) by 10 both sides

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**Bright Tutee** 

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