

# 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)  $\frac{1}{11}$

(iii)  $4\frac{1}{8}$

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

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

(vi)  $\frac{329}{400}$

### Answer 1:

(i)  $\frac{36}{100} = 0.3$ , Terminating.

(ii)  $\frac{1}{11} = 0.\overline{09}$ , 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  $\frac{1}{7}$  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:

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

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

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

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

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

## Question 3:

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

(i)  $0.\overline{6}$

(ii)  $0.4\overline{7}$

(iii)  $0.\overline{001}$

### Answer 3:

(i)  $0.\overline{6}$

Let  $x = 0.\overline{6}$

$\Rightarrow x = 0.6666 \dots$  ... (i)

Multiplying equation (i) by 10 both sides

$10x = 6.6666 \dots$

# Class 9 Math Solution Bd

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