

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

$10x = 6.6666 \dots$

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