RPF SI & CONSTABLE 2024

रेल रक्षक बैच

MATHS

Decimal & Fraction

Part- 04



LIVE STREAMING 04-06-2024 9AM



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1. Convert $0.\overline{6}$ into fraction:

$0.\overline{6}$ को भिन्न में बदलें:

(a) $\frac{6}{3}$

(b) $\frac{2}{3}$

(c) $\frac{2}{6}$

(d) $\frac{4}{3}$

$\frac{6}{9} \Rightarrow \frac{2}{3}$

RRB Group-D – 28/09/2018 (Shift-II)

2. The number $0.12\overline{464}$ in the form $\frac{p}{q}$ is equal to:

$\frac{p}{q}$ के रूप में संख्या $0.12\overline{464}$ बराबर है:

(a) $\frac{117}{1950}$

(b) $\frac{17}{950}$

(c) $\frac{67}{4999}$

(d) $\frac{617}{4950}$

$0.12\overline{464}$

$\Rightarrow \frac{12464-124}{99000} \Rightarrow \frac{12340}{99000} \Rightarrow \frac{617}{4950}$

RRB NTPC 14.03.2021 (Shift-I) Stage I



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3. The value of $3.1\overline{4}$ is:

3. $1\overline{4}$का मान है:

(a) $3\frac{13}{90}$

(b) $3\frac{12}{90}$

(c) $3\frac{11}{90}$

(d) $3\frac{14}{90}$

$3+\frac{13}{90}$

$\Rightarrow 3\frac{13}{90}$

$3.1\overline{5}$

$3+0.1\overline{5}$

$3+\frac{14-1}{90}$

RRB NTPC 29.01.2021 (Shift-II) Stage I

$3\frac{23}{180}$

$3+\frac{115}{900}\ \frac{23}{180}$

$3+\frac{23}{180}$

$\frac{540+23}{180}$

$\Rightarrow \frac{563}{180}$

4. Express the decimal number $3.12\overline{7}$ in fraction form.

दशमलव संख्या $3.12\overline{7}$ को भिन्न रूप में व्यक्त करें।

(a) $\frac{281}{900}$

(b) $\frac{563}{180}$

(c) $\frac{180}{563}$

(d) $\frac{365}{180}$

$3.12\overline{7} =$

$3+0.12\overline{7}$

$3+\frac{127-12}{900}$

RRB NTPC 22.02.2021 (Shift-I) Stage Ist

5. $0.5\overline{32}$_____ is equivalent to the fraction:

$0.5\overline{32}$_____ इस भिन्न के बराबर है:

(a) $\frac{572}{990}$

(b) $\frac{527}{990}$

(c) $\frac{537}{990}$

(d) $\frac{32}{99}$

$0.5\overline{32}$

$\frac{532-5}{990} = \frac{527}{990}$

RRB NTPC 04.02.2021 (Shift-II) Stage I

$0.\overline{29} + 0.\overline{47} + 0.\overline{13} = 0.\overline{89}$

$\frac{29}{99} + \frac{47}{99} + \frac{13}{99} \Rightarrow \frac{89}{99} \rightarrow 0.\overline{89}$

$0.\overline{80} = 0.80808080\ldots$

$0.\overline{8} = 0.88888\ldots$

2
37
25
18
80

$1.\overline{37} + 4.\overline{25} + 9.\overline{18} = ?$

$1 + 0.\overline{37} + 4 + 0.\overline{25} + 9 + 0.\overline{18}$

$14 + 0.\overline{80}$

$14.\overline{80}$

$1.\overline{18}$

$0.\overline{73} + 0.\overline{45} \Rightarrow \frac{1.\overline{18}}{99}$

$\frac{1.19}{}$

$99\overline{)118}\,(1$

$\frac{99}{19}$

$\frac{73}{99} + \frac{45}{99}$

$= \frac{118}{99} \Rightarrow 1 + \frac{19}{99}$

$\Rightarrow 1 + 0.\overline{19}$

$\Rightarrow 1.\overline{19}$

$= 1.\overline{19}$

$1\frac{19}{99}$

$\Rightarrow 1 + \frac{19}{99}$

6. The value of $0.\overline{56} + 0.\overline{43} + 0.\overline{89}$ is.

$0.\overline{56} + 0.\overline{43} + 0.\overline{89}$ का मान है।

(a) $1.\overline{98}$

(b) $1.\overline{87}$

(c) $1.\overline{89}$

(d) $1.\overline{88}$

$1.\overline{88} - 0.\overline{99} = 1.\overline{89}$

RRB NTPC 23.02.2021 (Shift-I) Stage Ist

$$0.\overline{57} + 0.\overline{44} + 0.\overline{83} = ?$$

$$1.84 = 1.8\overline{5}$$

$$+\ 1$$

$$\overline{1.85}$$

7. Evaluate: $0.6\overline{23}$

मूल्यांकन करें: $0.6\overline{23}$

(a) $\frac{623}{999}$

(b) $6\frac{23}{999}$

(c) $\frac{617}{990}$

(d) $6\frac{23}{990}$

$0.6\overline{23}$

$\frac{623-6}{990} \Rightarrow \frac{617}{990}$

RRB JE - 31/05/2019 (Shift-II)



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8. Find the value of $\frac{1}{1.4}+\frac{1}{4.7}+\frac{1}{7.10}+\cdots.+\frac{1}{47.50}$

$\frac{1}{1.4}+\frac{1}{4.7}+\frac{1}{7.10}+\cdots.+\frac{1}{47.50}$ का मान ज्ञात करें

(a) $\frac{49}{50}$

(b) $\frac{47}{150}$

(c) $\frac{47}{50}$

(d) $\frac{49}{150}$

$\frac{1}{\text{अन्तर}}(\text{1st} - \text{Last})$

$= \frac{1}{3}\left(\frac{1}{1}-\frac{1}{50}\right)$

$= \frac{1}{3}\left(\frac{50-1}{50}\right) = \frac{49}{150}$

$\frac{1}{1\times4}+\frac{1}{4\times7}+\frac{1}{7\times10}+---+\frac{1}{47\times50}$

$\frac{1}{1}\times\frac{1}{4}+\frac{1}{4}\times\frac{1}{7}+\frac{1}{7}\times\frac{1}{10}+---+\frac{1}{47}\times\frac{1}{50}$

RRB NTPC 16.02.2021 (Shift-II) Stage Ist

9. The sum of $\frac{1}{2}+\frac{1}{6}+\frac{1}{12}+....+\frac{1}{n(n+1)}$ is:

$\frac{1}{2}+\frac{1}{6}+\frac{1}{12}+....+\frac{1}{n(n+1)}$ का योग है:

(a) $\frac{n+1}{n}$

(b) $\frac{n(n+1)}{2}$

(c) $\frac{n+1}{2n}$

(d) $\frac{n}{n+1}$

$\frac{1}{\text{अन्तर}}(\text{1st}-\text{Last})$

$\frac{1}{1}\left(\frac{1}{1}-\frac{1}{(n+1)}\right)$

$=\left(\frac{n+1-1}{1\times(n+1)}\right)$

$=\frac{n}{n+1}$

$\frac{1}{1\times2}+\frac{1}{2\times3}+\frac{1}{3\times4}+--+\frac{1}{n(n+1)}$

$\left(\frac{1}{1}\times\frac{1}{2}+\frac{1}{2}\times\frac{1}{3}+\frac{1}{3}\times\frac{1}{4}+\text{——}+\frac{1}{n}\times\frac{1}{n+1}\right.$

RRB NTPC 02.03.2021 (Shift-II) Stage Ist

$$\frac{1}{2}+\frac{1}{3}+\frac{1}{4}+\frac{1}{5}+\frac{1}{6}+\frac{1}{7}+\frac{1}{8}+\frac{1}{25}+\frac{1}{47}+\frac{1}{96}$$

10. $2\frac{1}{25} = ?$

(a) 0.24

(b) 2.4

(c) 2.004

(d) 2.04

RRB Group-D – 27/09/2018 (Shift-III)

11. Find the value

मान ज्ञात करें

$$\frac{1}{5 \times 8} + \frac{1}{8 \times 11} + \frac{1}{11 \times 14} + \frac{1}{14 \times 17}$$

(a) $\frac{4}{17}$

(b) $\frac{4}{85}$

(c) $\frac{24}{85}$

(d) $\frac{2}{85}$

RRB NTPC 15.03.2021 (Shift-I) Stage Ist

$\frac{1}{3}\left(\frac{1}{5}-\frac{1}{17}\right)$

$\frac{1}{3}\left(\frac{17-5}{85}\right)$

$\frac{1}{3} \times \frac{12}{85} = \frac{4}{85}$

$\frac{1}{\text{अन्तर}}$ (1st Term − Last Term)

12. Find the value of $\frac{1}{1\times2}+\frac{1}{2\times3}+\frac{1}{3\times4}+\frac{1}{4\times5}+\frac{1}{5\times6}+\cdots+\frac{1}{9\times10}$

$\left(\frac{1}{1\times2}+\frac{1}{2\times3}+\frac{1}{3\times4}+\frac{1}{4\times5}+\frac{1}{5\times6}+\cdots+\frac{1}{9\times10}\right)$ का मान ज्ञात करें

(a) 1/10

(b) 5/11

(c) 9/10

(d) 2/5

$1-\left(\frac{1}{1}-\frac{1}{10}\right)=\frac{9}{10}$

RRB JE - 24/05/2019 (Shift-III)