

34. It takes 35 minutes to cover $\left[\frac{1 + \frac{2}{1 + \frac{3}{1 + \frac{4}{5}}}}{\frac{3}{2}} \right]$ part of a journey, how much time will it require to cover $\frac{3}{2}$ of that very journey?

$$1 + \frac{2}{1 + \frac{3}{\frac{9}{5}}}$$

यदि एक यात्रा के $\left[\frac{1 + \frac{2}{1 + \frac{3}{1 + \frac{4}{5}}}}{\frac{3}{2}} \right]$ वें भाग को पूरा करने में 35 मिनट

$$1 + \frac{2}{1 + \frac{155}{93}}$$

लगते हों, तो उसी यात्रा के $\frac{3}{2}$ भाग को पूरा करने में कितना समय लगेगा?

- (A) 14 मिनट
(C) 42 मिनट

- (B) 21 मिनट
(D) 30 मिनट

$$\frac{7}{4} \text{ भाग} = 35 \text{ min}$$

$$\frac{3}{2} \text{ भाग} = \frac{35 \times 4}{7} \times \frac{3}{2}$$

$$30 \text{ min}$$

$$1 + \frac{2}{1 + \frac{5}{3}}$$

$$1 + \frac{2 \times 3}{8} = \frac{7}{4} \text{ भाग}$$

$$1 + \frac{3}{4} = \frac{7}{4} \text{ भाग}$$

(33) (ii)

$$4 - \frac{5}{1 + \frac{1}{3 + \frac{1}{2 + \frac{1}{4}}}}$$

$$4 - \frac{5 \times 31}{408} = 4 - \frac{31}{8} = \frac{1}{8}$$

$$1 + \frac{1}{3 + \frac{1}{2 + \frac{1}{4}}}$$

1, 4 $\sqrt{9}$ $\sqrt{31}$ $\sqrt{40}$

$$\frac{40}{31}$$

$\frac{1}{8}$ मात्र $\rightarrow 12 \text{ min}$

$\frac{3}{4}$ मात्र $\rightarrow \frac{12 \times 8^2 \times 3}{1 \times 4} = 72 \text{ min}$

35. Find the value of $999 \frac{995}{999} \times 999 -$

$999 \frac{995}{999} \times 999$ का मान निकालें-

(A) 990809

(C) 999824

~~(B) 998996~~

(D) 998999

$$\left[999 + \frac{995}{999} \right] \times 999$$

$$999^2 + 995$$

$$99 \ 8001 + 995$$

$$996$$

3
6
9

Recurring

$$\frac{2}{3} = 0.666666\ldots = 0.\overline{6}$$

$$0.\overline{6} = \frac{6}{9} = \left(\frac{2}{3}\right)$$

$$\textcircled{i} \quad 0.237237237237\ldots = 0.\overline{237} = \frac{237}{999}$$

$$\textcircled{iii} \quad 0.2\overline{345} = \frac{2345 - 2}{9990} = \frac{2343}{9990}$$

$$\textcircled{iv} \quad 0.745\overline{3} = \frac{7453 - 74}{9900} = \frac{7379}{9900}$$

$$\textcircled{ii} \quad 5.\overline{74} = 5 + \frac{74}{99}$$

$$\left(5 \frac{74}{99}\right)$$

$$\textcircled{v} 3.27\dot{5}$$

$$3 + \frac{275-27}{900}$$

$$3 + \frac{248}{900}$$

$$\text{I} \rightarrow \frac{43}{30} = \textcircled{1} + \frac{13}{30}$$

$$\text{II} \rightarrow \frac{30}{13} = \textcircled{2} + \frac{4}{13}$$

$$\text{III} \rightarrow \frac{13}{4} = \textcircled{3} + \frac{1}{4}$$

$$\frac{1}{\frac{1}{\textcircled{1} + \frac{1}{\frac{1}{\textcircled{2} + \frac{1}{\frac{1}{\textcircled{3} + \frac{1}{4}}}}}}} = \frac{30}{43}$$

$$1, 4 \quad \checkmark 13$$

$$\checkmark 30 \quad \checkmark 43$$

$$\frac{43}{30}$$

$$\frac{45}{53}$$

$$\frac{1}{\frac{1}{a + \frac{1}{\frac{1}{b + \frac{1}{\frac{1}{c + \frac{1}{d}}}}}}}$$

$$\frac{1}{x \oplus \frac{1}{y \oplus \frac{1}{z \oplus \frac{1}{5}}}} = \frac{30}{43}$$

$$x + y + 2 = 1 + 2 + 3 = 6$$

① $0.\overline{23}$ रेकडीग

② $\overline{-2}.\overline{73}$ मन्टीश॥ धरव (-)

$-2 + 0.\overline{73}$

2,3 Lcm 6

① $0.\overline{23} + 0.\overline{475}$

Lcm		**
$0.\overline{232323}$	23	..
$0.\overline{475475}$	47	..
<hr/>		
$0.\overline{707798}$	70	

$0.\overline{707798}$

① $0.\overline{23} + 0.\overline{475}$ $2, 3 \xrightarrow{\text{LCM}} 6$

Lcm	
• * * * * *	* *
0. 23 23 23	23 23 - - - -
0. 475 475	475 475 - - -
0. 707798	7077

0.707798

$$2, 3 \xrightarrow{\text{LCM}} 6$$

$$\textcircled{2} \quad 17.\overline{43} + 16.\overline{246}$$

	LCM	
17	• * * * * *	* *
17	• 4 3 4 3 4 3	4 3
16	• 2 4 6 2 4 6	2 4 - - - - -
33	• 6 8 0 5 8 9	6.7. X

$$33.\overline{680589}$$

$2.4\overline{37} + 6.47\overline{52}$

 $2,2 \xrightarrow{\text{LCM}} 2$

\rightarrow max^m अंक लेना जिसपर Repeating नहीं है.

	LCM	*	*
2	43	737	...
6	47	525	...
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8	91	26	262

✓

$8.91\overline{26}$

$\# 9.47\overline{53} + 8.234\overline{698}$

8.9126

9.4753 + 8.234698

	Lcm	**
9.***	** ** *	**
9.475	353535	353
8.234	698698	698
<hr/>		
17.710	052234	051

17.710052234

36. Simplify $4.\overline{36} - 3.\overline{05} + 2.\overline{33} -$

$4.\overline{36} - 3.\overline{05} + 2.\overline{33}$ को सरल करें-

(A) 2.60

(B) 3.64

(C) $2.\overline{64}$

(D) $3.\overline{64}$

37. Find the value of $8.\overline{31} + 0.\overline{6} + 0.00\overline{2}$ –
 $8.\overline{31} + 0.\overline{6} + 0.00\overline{2}$ का मान निकालें-

(A) ~~$8.\overline{912}$~~

(B) ~~$8.\overline{912}$~~

(C) $8.9\overline{79}$

(D) ~~$8.9\overline{79}$~~