

KGS



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By :- P.K Sir

SIMPLIFICATION



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$$\# \quad 1 + \frac{1}{1 + \frac{1}{1 + \frac{1}{1 + \frac{5}{6}}}}$$

5, 6

11 ✓

17 ✓

28 ✓

45 ✓

73 ✓

$$\frac{73}{45}$$

$$\# \quad 1 - \frac{1}{1 - \frac{1}{1 - \frac{1}{1 - \frac{5}{6}}}}$$

5, 6

(6-5) ✓
1

(1-6) ✓
-5

(-5-1) ✓
-6

-6 - (-5) ✓
-6 + 5
= -1

$$\frac{+1}{76} = \frac{1}{6} \text{ Ans.}$$

$$\# 1 - \frac{1}{1 - \frac{1}{1 - \frac{1}{1 - \frac{4}{5}}}}$$

$$4, 5 \quad \begin{matrix} \checkmark \\ (5-4) \\ \textcircled{1} \end{matrix} \quad \begin{matrix} \checkmark \\ (1-5) \\ \textcircled{-4} \end{matrix} \quad \begin{matrix} \checkmark \\ (-4-1) \\ -5 \end{matrix} \quad \begin{matrix} \checkmark \\ (-5+4) \\ -1 \end{matrix}$$

$$\frac{-1}{-5} = \frac{1}{5} \text{ Ans.}$$

$$\# 1 - \frac{1}{1 - \frac{1}{1 - \frac{1}{1 - \frac{6}{5}}}}$$

$$6, 5 \quad \begin{matrix} \checkmark \\ (5-6) \\ -1 \end{matrix} \quad \begin{matrix} \checkmark \\ (-1-5) \\ -6 \end{matrix} \quad \begin{matrix} \checkmark \\ (-6+1) \\ -5 \end{matrix} \quad \begin{matrix} \checkmark \\ (-5+6) \\ 1 \end{matrix} \quad \begin{matrix} \checkmark \\ (1+5) \\ 6 \end{matrix}$$

$$\frac{6}{1} = \underline{\underline{6 \text{ Ans.}}}$$

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

Sing

3, 4

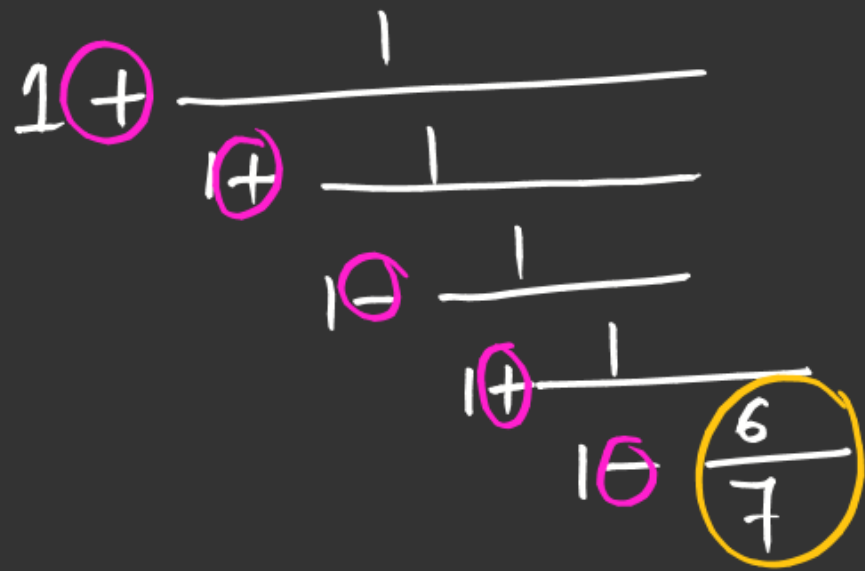
$$\begin{array}{c} \checkmark (-) \\ (4-3) \\ 1 \end{array}$$

$$\begin{array}{c} \checkmark (+) \\ (1+4) \\ 5 \end{array}$$

$$\begin{array}{c} \checkmark (-) \\ (5-1) \\ 4 \end{array}$$

$$\begin{array}{c} \checkmark (+) \\ (4+5) \\ 9 \end{array}$$

$$\frac{9}{4} \text{ Ans.}$$



6, 7

$$\begin{array}{r} (-) \\ \hline (7-6) \\ 1 \end{array}$$

$$\begin{array}{r} (+) \\ \hline (1+7) \\ 8 \end{array}$$

$$\begin{array}{r} (-) \\ \hline (8-1) \\ 7 \end{array}$$

$$\begin{array}{r} (+) \\ \hline (7+8) \\ 15 \end{array}$$

$$\begin{array}{r} (+) \\ \hline (15+7) \\ 22 \end{array}$$

$$\begin{array}{r} 22 \\ \hline 15 \end{array}$$

14.

The value of $4 - \frac{5}{1 + \frac{1}{3 + \frac{1}{2 + \frac{1}{4}}}}$ is $\frac{31}{40}$
 $\times \frac{31}{31} = \frac{40}{31}$
 $\times \frac{4}{9} = \frac{31}{9}$
 $\frac{4}{9}$

~~(a)~~ $\frac{1}{8}$

(b) $\frac{1}{64}$

(c) $\frac{1}{16}$

(d) $\frac{1}{32}$

$$4 - \frac{5 \times 31}{40} = 4 - \frac{155}{40}$$

$$= \frac{160 - 155}{40} = \frac{5}{40} = \frac{1}{8}$$

15.

If $\frac{1}{1 + \frac{1}{1 + \frac{1}{1 + \frac{1}{x}}}} = \frac{5}{8}$, then what is the value of x ?

यदि $\frac{1}{1 + \frac{1}{1 + \frac{1}{1 + \frac{1}{x}}}} = \frac{5}{8}$ हो, तो x का मान क्या है?

(a) 2

(b) 3

(c) 1

(d) 4

$$\text{I} \rightarrow \frac{8}{5} = 1 + \frac{3}{5}$$

$$\text{II} \rightarrow \frac{5}{3} = 1 + \frac{2}{3}$$

$$\text{III} \rightarrow \frac{3}{2} = 1 + \frac{1}{2}$$

$$\frac{1}{x} = \frac{1}{2}$$

$$x = 2$$

16.

$$\frac{1}{\boxed{a} + \frac{1}{\boxed{b} + \frac{1}{\boxed{c} + \frac{1}{\boxed{d}}}}} = \frac{29}{154}, \text{ then } a + b + c + d = ?$$

$5 + 3 + 4 + 2$

(a) 12

(b) 13

 (c) 14

(d) 15

$$\frac{1}{\boxed{d} + \frac{1}{\boxed{a}}}$$

$$\text{I} \rightarrow \frac{154}{29} = \boxed{5} + \frac{9}{29}$$

$$\text{II} \rightarrow \frac{29}{9} = \boxed{3} + \frac{2}{9}$$

$$\text{III} \rightarrow \frac{9}{2} = \boxed{4} + \frac{1}{2}$$

$$\begin{aligned} a &= 5 \\ b &= 3 \\ c &= 4 \\ d &= 2 \end{aligned}$$

17.

If $(x + 7957 \times 7965)$ is a perfect square, then find the value of x ?

(a) 1

~~(b) 16~~

(c) 9

(d) 25

Best concept

$$x + 7957 \times 7965$$

$$\left(\frac{8}{2}\right)^2 = 4^2 = \underline{\underline{16 \text{ Ans.}}}$$

$$p + 443 \times 449 \rightarrow \text{पूर्ण वर्ग सं० है तो } p \text{ का मान क्या होगा}$$

$$\left(\frac{6}{2}\right)^2 = 3^2 = 9$$

1956 x 1968 + x एक पूर्ण वर्ग सं० है तो x का मान निकालें।

$$\begin{aligned} & \begin{array}{c} (-) \\ \swarrow \quad \searrow \\ \left(\frac{19}{2}\right)^2 \end{array} = 6^2 \\ & = 36 \underline{\underline{\text{ANS.}}} \end{aligned}$$