

$$\begin{aligned}
 k &\rightarrow sh \\
 k &\rightarrow f \\
 k &\rightarrow R
 \end{aligned}
 \quad \boxed{ffff} \quad sh \cdot sh \quad sh \quad sh \quad R \quad R \quad R \quad \textcircled{1}$$

$$\boxed{1! \times 4!}$$

$$sh-sh-sh-sh-R-R-R \Rightarrow \boxed{\binom{1}{f} \times 4! \times 4!} \quad \textcircled{2}$$

$$\text{حالتی که هیچ کتاب نداریم} \quad A : 1! \times 4! \quad \textcircled{3}$$

$$\text{حالتی که هیچ کتاب نداریم} \quad B : 1! \times 4! = 4!$$

$$\text{حالت یعنی} \quad (A+B) = 4! - (1! \times 4! + \binom{1}{f} \times 4! \times 4!)$$

$$\boxed{sh \ sh \ sh \ sh} \rightarrow 4! \times 3! \times 4! \times 2! \quad \textcircled{4}$$

سوال جدید

$$4! \times 4! \times 4! \times 4! \times 4!$$

-5

14

$$(4 \Delta 4) = 100$$

14

$$(4 \Delta 4) = 48$$

-4

14

$$(4 \Delta 4) = 40$$

14

$$(4 \Delta 4) = 18 + \Rightarrow 30$$

$$(4 \Delta 4) = 12$$

-5

14

$$(4 \Delta 4) = 40$$

14

$$(4 \Delta 4) = 18$$

-1

14

$$(4 \Delta 4) = 40$$

14

$$(4 \Delta 4) = 14 + \Rightarrow 28$$

$$(4 \Delta 4) = 8$$

-9

14

$$(4 \Delta 4) = 40$$

14

$$(4 \Delta 4) = 4$$

-10

20

$$(4 \Delta 4) = 10$$

20

$$(4 \Delta 4) = 8 + \Rightarrow 12$$

$$(4 \Delta 4) = 8$$

-11

4, X, 12, 20
28, 32, 40, 48

$$(4 \Delta 4) = 28$$

$$(4 \Delta 4) = 9 + 12 = 21$$

-12

$$(4 \Delta 4) = 20$$

108, 108, 308, 138, 138, 218, 238
318, 328, 4

$$20 + 28 = 48$$

سلسلة متكررة

06
May. 2023

والعشرون ١٤٤٤ هـ

١٦

١٦ (٤ ٥ ١) = ٢٠

١٧

١٧ (٤ ٣ ١) = ١٢ - ١٣

١٨

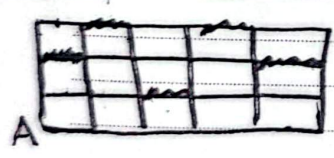
١٨ (٤ ٥ ٤ ٣ ٢ ١) = $\frac{٩!}{٣! \times ٢!}$ - ١٤

١٩ $\frac{٥!}{٣! \times ٢!} = ١٠$ $\frac{٥!}{٣!} = ٢٠$ $\frac{٥!}{٢! \times ٢!} = ٣٠$ - ١٥

$\rightarrow ٣٠ + ٢٠ + ١٠ = ٦٠$

٢٠ $\frac{٣!}{٢!} = ٣$ $\left\{ \begin{matrix} ٣, ١, ١ \\ ٣, ٣ \end{matrix} \right.$ $\frac{٣!}{٢!} = ٣$ $\left. \right\} \Rightarrow ١$ - ١٦

٢١ $٣! = ٦$ $\left\{ ١ + ٣ + ٣ + ٣ + ٦ = 14 \right\}$



B $\binom{٤}{٢} \times \binom{٤}{٢} = ٦ \times ٦ = ٣٦$ - ١٧

٢٢

$\binom{١}{٣} = \frac{١!}{٣! \times ٥!} = ٥٩$ - ١٨

٢٣

$٥ \times ٤ \times ٤ = ٨٠$ - ١٩

٢٤ $١ \times ١ \rightarrow ١$ $٣ \times ٣ \rightarrow ٣$ $١٠ + ١ + ٣ = ١٤$ - ٢٠