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تاریخچه

بنام پروردگار بزرگوار

تاریخچه

$9! = 360$

-1

$(9-1)! = 8! = 40320$

-2

$\frac{8!}{2} = \frac{40320}{2} = 20160$

-3

$\binom{9}{2} \times 2! = \frac{9!}{2! \times 7!} \times 2! = \frac{360}{1} = 360$

-4

$\binom{9}{3} \times 3! = \frac{9!}{3! \times 6!} \times 6 = 84$

-5

$\binom{9}{4} \times 4! = \frac{9!}{4! \times 5!} \times 24 = 378$

-6

$\binom{9}{5} \times 5! = \frac{9!}{5! \times 4!} \times 120 = 1512$

-7

cd abet $8! = 40320$

-8

cd abet | d c abet $8! \times 2! = 80640$
دو حالت

-9

$\frac{9!}{2!} = 181440$

-10

cde ab t $9! \times 2! = 725760$

-11

زیاده

$$cde \quad \frac{4!}{3!} = 4 \quad -12$$

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$$c, e, d, a \quad \frac{4!}{2!2!} = \frac{4!}{2} = 12 \quad -12$$

$$\dots \dots \dots \frac{4! \times 4!}{2! \times 2!} = 12 \times 12 = 144 \quad -12$$

$$\Delta! \times \Delta! \times 2! = 12 \times 12 \times 2 = 288 \quad -12$$

$$\dots \dots \dots \Delta! \times \binom{4}{\Delta} \times \Delta! = \Delta! \times 4! \times \Delta! = -14$$

$$\Delta! \times 4! = 12 \times 24 = 288$$

$$10! - \Delta! 4! - \Delta! 4! \rightarrow$$

10! = 3,628,800
 Δ! 4! = 12 * 24 = 288
 Δ! 4! = 12 * 24 = 288
 3,628,800 - 288 - 288 = 3,628,224

$$\Delta! \Delta! 2! = 12 \times 12 \times 2 = 288 \quad -12$$

$$\Delta! \times 4! = 12 \times 24 = 288 \quad -12$$