

تاریخ

بنام پروردگار مهربان

تاریخ

$$9! = 360$$

-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

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

-5

$$\binom{9}{4} \times 4! = \frac{9!}{4! \times 5!} \times 4! = 126$$

-6

$$\binom{9}{5} \times 5! = \frac{9!}{5! \times 4!} \times 5! = 126$$

-7

$$\underline{c} \underline{d} \underline{a} \underline{b} \underline{e} \underline{f} \quad 8! = 40320$$

-8

$$\underline{c} \underline{d} \underline{a} \underline{b} \underline{e} \underline{f} \quad \underline{d} \underline{c} \underline{a} \underline{b} \underline{e} \underline{f} \quad 8! \times 2 = 80640$$

-9

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

-10

$$\underline{c} \underline{d} \underline{e} \underline{a} \underline{b} \underline{f} \quad \frac{9!}{3!} = 1440 \times 9 = 12960$$

-11

زیاده

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

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$$c, e, d, a \quad \frac{4!}{2!2!} = \frac{4 \times 3}{2} = 6 \quad -12$$

$$\dots \dots \dots \frac{4! \times 4!}{2! \times 2!} = \frac{4 \times 3 \times 2 \times 2 \times 2 \times 2}{2 \times 2} = 144 \quad -12$$

$$\Delta! \times \Delta! \times 2! = 4! \times 4! \times 2 = 288 \quad -12$$

$$\dots \dots \dots \Delta! \times \binom{4}{\Delta} \times \Delta! = \Delta! \times 4! \times \Delta! = -12$$

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

$$1.1 - \Delta! \times 4! - \Delta! \times 4! \rightarrow$$

1.1 - 4! \times 4! - 4! \times 4!  
 1.1 - 288 - 288  
 1.1 - 576

$$\Delta! \times \Delta! \times 2! = 4! \times 4! \times 2 = 288 \quad -12$$

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