

باسمِ خداوند تعالی تالیف ۱۲۹ / لاس دهم دفتر A / پرینال باقری

$$4! = 24$$

1

$$(4-1)! = 3! = 6$$

2

$$\frac{(4-1)!}{2} = \frac{3!}{2} = 3$$

3

$$\binom{4}{2} \times 2! = 6$$

4

$$\binom{4}{3} \times 3! = 24$$

5

$$\binom{4}{4} \times \frac{4!}{2} = 12$$

6

$$\binom{4}{4} \times 4! = 4 \times 4! = 96$$

7

$$\textcircled{dc} abef \rightarrow 3! = 6$$

8

$$\textcircled{c,d} abef \rightarrow 3! \times 2! = 12$$

9

$$\frac{4!}{2!} = 12$$

10

$$(c, d, e) a b f \rightarrow 4! \times 3! = 144$$

11

$$\frac{4!}{3!} = 120$$

12

$$\frac{4!}{3!} = 120$$

13

$$\frac{4!}{2! \times 2!} = 110$$

14

$$(●●●●) ○○○○ \rightarrow 4! \times 5! = 14400$$

15

$$5! \times 5! \times 2! = 21120$$

16

$$5! \times \binom{4}{2} \times 5! = 14400$$

17

$$10! - (5! \times 4!) - 5! \times \binom{4}{2} \times 5! = 144000$$

18

$$2! \times 5! \times 5! = 21120$$

19

$$5! \times 4! = 21120$$

20