

لیبار منی هم B به نام خدا ۲۰ تکلیف ۲۹

11 $(6-1)! = 5! = 120$ $9! = 362880$

12 $\binom{6}{k} \times k! = \frac{6!}{k!(6-k)!} \times k! = \frac{6!}{(6-k)!}$ $\binom{6-1}{2} = \frac{5!}{2!} = 60$

14 $\binom{6}{k} \times \frac{(k-1)!}{2} = 12 \times \frac{6}{2} = 36$ $\binom{6}{k} \times \frac{(k-1)!}{2} = 90$

17 $\binom{6}{k} \times k! = \binom{6}{1} \times 1! = 6$

18 $\alpha b c d e f \rightarrow 6! = 720$ $\alpha b d c e f \rightarrow 6! = 720$

20 $\alpha b c d e f \rightarrow 6! = 720$ $d c \rightarrow \frac{6!}{2!} = 360$

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$\frac{3!}{2!} = 1 \times 2 = 2$ $\frac{3!}{2!} = 1 \times 2 = 2$

$\frac{5!}{4!} = 1 \times 2 \times 3 \times 4 = 24$ $\frac{5!}{4!} = 1 \times 2 \times 3 \times 4 = 24$

$\frac{5!}{3!} = 1 \times 2 \times 3 \times 4 \times 5 = 120$ $\frac{5!}{3!} = 1 \times 2 \times 3 \times 4 \times 5 = 120$

(جواب درست + نام درست) - کل حالت

$\rightarrow 10! - (4!5! + 5!4!) = 10! - 2(4!)(5!)$

$\frac{4!5!}{2!} = 2 \times 24 \times 120 = 5760$ $\frac{4!5!}{2!} = 2 \times 24 \times 120 = 5760$