

$$\left. \begin{array}{l} \text{بدون تکرار} \\ 1 \times 2 = 2 \\ 2 \times 3 = 6 \end{array} \right\} = \text{بدون تکرار} \quad 3 \times 2 = 6$$

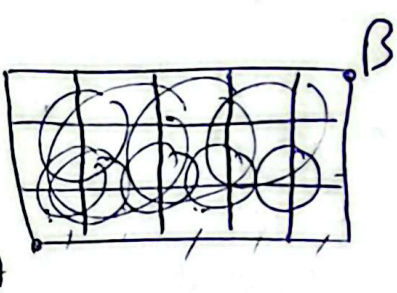
$$\left. \begin{array}{l} \text{با تکرار} \\ 1 \times 1 = 1 \\ 2 \times 2 = 4 \end{array} \right\} \rightarrow 9 + 6 = 15$$

$$3 \times 2 = 6 \quad \text{با تکرار} = \frac{8}{\frac{1}{12} / \frac{1}{24} / \frac{1}{36} / \frac{1}{48} / \frac{1}{60} / \frac{1}{72} / \frac{1}{84} / \frac{1}{96} / \frac{1}{108} / \frac{1}{120} / \frac{1}{144} / \frac{1}{180} / \frac{1}{216} / \frac{1}{240} / \frac{1}{252} / \frac{1}{288} / \frac{1}{360} / \frac{1}{420} / \frac{1}{432} / \frac{1}{480} / \frac{1}{504} / \frac{1}{540} / \frac{1}{560} / \frac{1}{576} / \frac{1}{600} / \frac{1}{630} / \frac{1}{648} / \frac{1}{660} / \frac{1}{672} / \frac{1}{684} / \frac{1}{696} / \frac{1}{700} / \frac{1}{720} / \frac{1}{728} / \frac{1}{744} / \frac{1}{756} / \frac{1}{768} / \frac{1}{780} / \frac{1}{792} / \frac{1}{800} / \frac{1}{810} / \frac{1}{816} / \frac{1}{828} / \frac{1}{840} / \frac{1}{848} / \frac{1}{864} / \frac{1}{870} / \frac{1}{880} / \frac{1}{882} / \frac{1}{896} / \frac{1}{900} / \frac{1}{908} / \frac{1}{912} / \frac{1}{920} / \frac{1}{924} / \frac{1}{930} / \frac{1}{936} / \frac{1}{940} / \frac{1}{945} / \frac{1}{948} / \frac{1}{950} / \frac{1}{954} / \frac{1}{956} / \frac{1}{960} / \frac{1}{964} / \frac{1}{968} / \frac{1}{970} / \frac{1}{972} / \frac{1}{975} / \frac{1}{976} / \frac{1}{978} / \frac{1}{980} / \frac{1}{984} / \frac{1}{988} / \frac{1}{990} / \frac{1}{992} / \frac{1}{995} / \frac{1}{996} / \frac{1}{998} / \frac{1}{999}}$$

$$13 \quad \frac{4 \times 3 \times 1}{1} = 12 \quad \text{بدون تکرار} \quad \frac{4 \times 3 \times 1}{0} = 20 = \text{با تکرار}$$

$$14 \quad \frac{9!}{3! \cdot 2!} = \frac{9 \times 8 \times 7 \times 6}{1 \times 2} = 90 \quad 15 \quad \frac{9!}{3! \cdot 2!} = 90$$

$$16 \quad \binom{4}{2} \binom{4}{2} = \frac{4 \times 3}{2} \times \frac{4 \times 3}{2} = 90$$



$$17 \quad \frac{1!}{3! \cdot 5!} = 56$$

در اصل بافتل با حرکت لغتی بودی
 کنیم چون بالا و پائین لغتین از اول تبجست می‌شد
 و حالت خاصی ایجاد نمی‌شد $4 \times 4 \times 4 \times 4 \times 4 = 4^5$

$$19 \quad (3 \times 5) + (4 \times 2) + 3 = 15 + 8 + 3 = 26$$

با عرض پوزسی سوال ۱۶ رو با ۱۷ جا به جا نویسم
 جواب سوال ۱۶

$$111 \rightarrow 1 \quad 113 \rightarrow 3 \quad 112 \rightarrow 2 \quad 133 \rightarrow 3 \quad 132 \rightarrow 2$$

$$332 \rightarrow 2 \quad 1 + 3 + 2 + 3 + 2 + 3 = 19$$