



$$\left. \begin{aligned} 111 &\rightarrow \frac{3!}{3!} \rightarrow 1_0 \\ 112 &\rightarrow \frac{3!}{3! \cdot 2!} \rightarrow 1_0 \\ 113 &\rightarrow \frac{3!}{2! \cdot 2!} \rightarrow 1_0 \end{aligned} \right\} \Rightarrow \boxed{9_0} \checkmark$$



(15)

$$\begin{aligned} 111 &\rightarrow \frac{3!}{3!} = 1 \\ 112 &\rightarrow \frac{3!}{2!} = 3 \\ 113 &\rightarrow \frac{3!}{2!} = 3 \end{aligned}$$

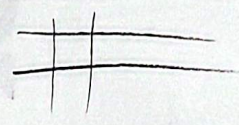
$$\begin{aligned} 123 &\rightarrow 3! = 6 \\ 133 &\rightarrow \frac{3!}{2!} = 3 \\ 233 &\rightarrow \frac{3!}{2!} = 3 \end{aligned}$$

$\boxed{19}$  ✓



(16)

$\binom{4}{2} \times \binom{4}{2} = 9_0$



(17)

$$\frac{1!}{2! \times 3!} = \binom{1}{3} = \frac{1 \times 1 \times 1}{1 \times 2 \times 1} = \boxed{1_9}$$



(18)

$4^2 = \boxed{16}$  ✓



(19)

$$\left. \begin{aligned} 1 \times 1 &\Rightarrow 1 \\ 2 \times 2 &\Rightarrow 4 \\ 3 \times 3 &\Rightarrow 9 \end{aligned} \right\} \Rightarrow \boxed{14} \checkmark$$



(20)

لیکنا ضروری