

$$\boxed{27} \quad P(n, r) = \frac{n!}{(n-r)!} \Rightarrow P(7, 3) = \frac{7!}{(7-3)!} = \frac{7!}{4!} = \frac{7 \cdot 6 \cdot 5 \cdot 4!}{4!} = 7 \cdot 6 \cdot 5 = 210$$