

$4 \times 5 \times 4 \times 3 \times 2 \times 1 = 4! = 24$

سوال 1:

$5! = 120$

(2)

$\frac{5!}{2} = 60$

(3)

$\binom{4}{2} \times 4! = \frac{4 \times 5 \times 4 \times 3}{2 \times 1} \times 4! = 340$

(4)

$\binom{4}{2} = \binom{4}{2}$ $\binom{4}{2} \times 3! = \frac{4 \times 5}{2} \times 3! = 90$

(5)

$\binom{4}{2} \times \frac{3!}{2} = 3 \times 5 \times 3 = 45$

(6)

g, b, d, e, f $\binom{4}{3} \times 4! = 4 \times 4! = 4 \times 24 = 96$

(7)

$(cd) \times x \times x \times x \times 5! = 120$

(8)

$(cd) \times x \times x \times x \times 5! \times 2! = 240$

(9)

$(cde) \times x \times x \times 4! \times 3! = 144$ (11) $\frac{4!}{2!} = 340$ (10)

(10)

$\frac{4!}{2!} = 120$

(13)

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

(12)

$\frac{4!}{2! \times 2!} = 180$

(14)



سوال 15

(15)



$4! \times 6! = 1440$



$2! \times 5! \times 5! = 2880$

(16)

$X \circ X \circ X \circ X \circ X \circ X \times 5! \times \binom{4}{2} 5! = 5! \times \frac{4!}{2!} \times 5! = 4! \times 5!$

(17)

$10! - 4! \times 5! - 4! \times 5! = 10! - 2(4! \times 5!)$

(18)

$5! \times 5! \times 2!$ $2 \times 5! \times 5!$

(19)



$\rightarrow \binom{5-1}{2} \times 5! = 4! \times 5!$

تعداد بیضه، تعداد سفید بیضه

(20)