

سوال 1:  $4 \times 5 \times 4 \times 3 \times 2 \times 1 = 4! = 24$  ✓ (1)

$5! = 120$  ✓ (2)

$\frac{5!}{2} = 60$  ✓ (3)

$\binom{4}{4} \times 4! = \frac{4 \times 3 \times 2 \times 1}{1} \times 4! = 240$  ✓ (4)

$\binom{4}{4} = \binom{4}{0}$   $\binom{4}{2} \times 3! = \frac{4 \times 3}{2} \times 6 = 36$  ✓ (5)

$\binom{4}{4} \times \frac{3!}{2} = 3 \times 3 = 9$  ✓ (6)

$g, b, x, d, e, f$   $\binom{6}{3} \times 3! = 6 \times 6 = 36$  ✓ (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)

$(cde) \times x \times x \times 4! \times 2! = 144$  ✓ (10)  $\frac{4!}{2!} = 120$  ✓

$\frac{4!}{2!} = 120$  ✓ (11)  $\frac{4!}{3!} = 4$  ✓ (12)

$\frac{4!}{2! \times 2!} = 6$  ✓ (14)


سوالات گوی

$9! \times 5! = 18480$  ✓ (15)

$2! \times 5! \times 5! = 2880$  ✓ (16)

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

(20)

