

۲۰ آفرین!

1) $\frac{4!}{1!} = 24$ ✓ (1)

2) $\frac{4!}{2!} = 12$ ✓ (1)

3) $\frac{4!}{3!} = 4$ ✓ (1)

4) $\binom{4}{1} \times 1! = \frac{4 \times 3 \times 2 \times 1}{1} \times 1 \times 1 = 24$ (1)

5) $\binom{4}{2} \times 2! = \frac{4 \times 3 \times 2 \times 1}{2 \times 1} \times 2 \times 1 = 6$ (1)

6) $\binom{4}{3} \times \frac{3!}{1} = \frac{4 \times 3 \times 2}{1} \times 1 = 24$ (1)

7) $\binom{4}{1} \times 1! = \binom{4}{1} \times 1! = 4 \times 1 \times 1 = 4$ (1)

8) $\binom{4}{2} \times 2! = 6 \times 2 = 12$ (1)

9) $\binom{4}{3} \times 3! = 4 \times 3 \times 2 \times 1 = 24$ (1)

10) $\frac{4!}{1!} = 24$ (1)

11) $\frac{4!}{2!} = 12$ (1)

12) $\frac{4!}{3!} = 4 \times 1 = 4$ (1)

13) $\frac{4!}{4!} = 1$ (1)

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14) $d, a, e, e \rightarrow$

$4!$
$2!2!$

 ✓ $4 \times d \times C_{2,2} = 11$ (1)

15) $4!2!$ ✓ (1)

16) $2!2!2!$ ✓ (1)

17) $8!(6)8! = 4 \times 4! \times 4!$ ✓ (1)

18) $10! - 9! - 9 \times 8! = 10! - 9! - 9 \times 8!$ ✓ (1)
سوال 15 - سوال 17

19) $2!8!8!$ ✓ (1)

20) $1!8!3!$ ✓ (1)