

$$(9-1)! = 8! = 40320 \quad (2)$$

$$7! = 5040 \quad (1)$$

$$\binom{9}{2} \times 8! = \frac{9!}{2! \cdot 7!} \times 8! = \frac{9!}{2} = 181440 \quad (3)$$

$$\frac{(9-1)!}{2} = \frac{8!}{2} = \frac{40320}{2} = 20160 \quad (13)$$

$$5 \cdot \binom{9}{2} \times 8! = 5 \cdot \frac{9!}{2} = 5 \cdot 181440 = 907200 \quad (4)$$

$$\binom{9}{2} \times 8! = \frac{9!}{2} = 181440 \quad (5)$$

$$a b c d e f \Rightarrow 6! = 720 \quad (11)$$

$$\binom{9}{2} \times 8! = \frac{9!}{2} = 181440 \quad (7)$$

$$\frac{9!}{2} = 181440 \quad (10)$$

$$c d e a b f \Rightarrow 6! = 720 \quad (9)$$

$$e d c a b f \Rightarrow 6! = 720 \quad (12)$$

$$a b c d e f \Rightarrow 6! = 720 \quad (11)$$

$$\binom{9}{2} \times 8! = 181440 \quad (15)$$

$$\frac{9!}{2} = 181440 \quad (14)$$

$$2! \times 8! \times 8! = 2 \times 40320 \times 40320 = 32768000 \quad (16)$$

$$9! \times 8! = 362880 \times 40320 = 146313600 \quad (15)$$

$$20 \cdot \binom{9}{2} \times 8! = 20 \cdot 181440 = 3628800 \quad (18)$$

$$\binom{9}{2} \times 8! = 181440 \quad (17)$$

$$8! \times 8! = 40320 \times 40320 = 1625856000 \quad (20)$$

$$8! \times 8! \times 2! = 1625856000 \quad (19)$$