



*combinatorial*

$$\frac{9!}{r! \times r!} \times r! = \frac{9!}{r!} \times \frac{r!}{r!} = \frac{9!}{r!} \times 1 = \frac{9!}{r!} \times r! \leftarrow (r^9) \times r!$$

3      9!    1  
2      9!    2

$$(r^9) \times \frac{r!}{r} = \frac{9!}{r! \times r!} \times \frac{r!}{r} = \frac{9!}{r! \times r!} \times r! = \frac{9!}{r!} \times \frac{r!}{r!} = \frac{9!}{r!} \times 1 = \frac{9!}{r!} \times r! \leftarrow (r^9) \times r! \cdot 5$$

$$\frac{9!}{r! \times r!} \times r! = \frac{9!}{r!} \times \frac{r!}{r!} = \frac{9!}{r!} \times 1 = \frac{9!}{r!} \times r! \leftarrow (r^9) \times r! \cdot 7$$

$$\frac{9!}{r! \times r!} \times r! = \frac{9!}{r!} \times \frac{r!}{r!} = \frac{9!}{r!} \times 1 = \frac{9!}{r!} \times r! \leftarrow (r^9) \times r! \cdot 7$$

$$\frac{9!}{r! \times r!} \times r! = \frac{9!}{r!} \times \frac{r!}{r!} = \frac{9!}{r!} \times 1 = \frac{9!}{r!} \times r! \leftarrow (r^9) \times r! \cdot 7$$

$$a b (cd) e f \rightarrow 9! = 1! 8!$$

$$a b (cd) e f \rightarrow 9! \times r! = r! 8!$$

$$\frac{9!}{r!} \rightarrow \frac{9!}{r!} \times r! = r! 8!$$

*cdie* a,b       $r! \times r! = r! 8!$

$$\frac{9!}{r!} = r! 8! \cdot 43$$

$$\frac{9!}{r!} \times r! = r! 8! \cdot 48$$

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$$\frac{9!}{r!} \times r! = r! 8! \cdot 45$$

19800

$$\frac{9!}{r! \times r!} = \frac{9!}{r! \times r!} \times r! = \frac{9!}{r!} \times \frac{r!}{r!} = \frac{9!}{r!} \times 1 = \frac{9!}{r!} \times r! \cdot 46$$

$$9! - 0! = 9! - 1 = 9! - 1$$

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$$r! \times r! \times r! = r! 8! \cdot 46$$

- 0-0-0-0-0 -

$$\binom{9}{2} \times r! = r! 8!$$

$$r! \times r! \times r! = r! 8! \cdot 46$$