

Assign 5

Warner Alexis

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Exercise 1 page 88

1. Four people are to be arranged in a row to have their picture taken. In how many ways can this be done?

Solution

Four can be arrange of the folowing order

$$P(n, n) = \frac{n!}{(n-k)!} \quad P(4, 4) = \frac{4!}{4-4!} \quad P(4, 4) = \frac{4*3*2*1}{0}! \quad P(4, 4) = 24$$

There are 24 ways to arange 4 people.