n = 59
r = 5

5,006,386

nCr

$$\frac{59!}{54!*5!}$$

Breakdowns

Step one

$$\frac{59 * 58 * 57 * 56 * 55 * \cancel{54!}}{\cancel{54!} * 5 * 4 * 3 * 2 * 1}$$

Step two

$$\frac{59 * 58 * 57 * 56 * \cancel{55}11 * \cancel{54!}}{\cancel{54!} * \cancel{5} * 4 * 3 * 2 * 1}$$

Step three

$$\frac{59 * 58 * 57 * \cancel{56}7 * \cancel{55}11 * \cancel{54!}}{\cancel{54!} * \cancel{5} * \cancel{4} * 3 * \cancel{2} * 1}$$

Step four

$$\frac{59 * 58 * \cancel{57}19 * \cancel{56}7 * \cancel{55}11 * \cancel{54!}}{\cancel{54!} * \cancel{5} * \cancel{4} * \cancel{3} * \cancel{2} * 1}$$

Step five

$$\frac{59 * 58 * 19 * 7 * 11}{1}$$

Answer

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