Royal Flush:

4

Straight Flush:

40-4=36

Four of a Kind: 11856

Case 0: \*\*48= 624

Case 1: \*\*\*48=7488

Case 2: \*\*48=3744

Full House: 24960

Case 0: \*\*12\*=3744

Case 1(Subcase1): \*\*12\*=11232

Case 1(Subcase2): \*\*12\*=2496

Case 2: \*\*12\*=7488

Flush:19980

Case 0: \*-40= 5108

Case 1: \*\*\*1=11440

Case 2: \*=3432

Straight:

Case 0: 10\*4^5-40=10200

Three of a Kind: 219648

Case 0: \*\*\*4\*4= 54912

Case 1: \*\*\*\*4\*4 = 164736

Case 2: Not possible

Two Pair: 243672

Case 0: \*\*\*44= 123552

Case 1: \*\*\*44 = 82368

Case 2: \*\*\*44 = 41184

One Pair: 1818960

Case 0: \*\*\*4\*4\*4 = 1098240

Case 1: \*\*\*4\*4\*4 - \*\*[Flush with one pair] = 720720

Case 2: Not Possible

Five of a Kind: 208

Case 0: Not Possible

Case 1: \*\* = 52

Case 2: \*\* =156