Royal Flush for dummies

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Royal Flush for dummies

The probability to have an ACE or King or Queen or Jack or 10 whatever the suit
(this draw defines the suit)_____20/52
To have a King, or a Queen, or a Jack or a 10 of the SAME suit_____4/51
The probability to have a card indicated above if the two cards had been got_____3/50
&Having yet the three indicated cards__ 2/49
&The four _____ 1/48

p(Royal Flush) =
= (20*4*3*2*1)/(52*51*50*49*48) =
= 0.000001539&_____ 1/649740
(decimal form____ to _____fractional form).

****

The same result by Combinatory procedure_____4 / (52C5) = 4 / 2598960 = 1/649740 (see program below).

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I´m curious who are those that prefer automatism (necessary in other occasions) instead of common sense&

_____licas (Luis A. Afonso)

```
REM "C"
CLS
DEFDBL A−Z
PRINT " nCHOOSEx "
INPUT " n = "; n
INPUT " x = "; x
ante = 1
FOR k = 0 TO x − 1
post = ante * (n − k) / (k + 1)
ante = post
NEXT k
PRINT USING " #.################^^^^ "; ante
END
```

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