YELLOW CRnext line = GREEN PN line x 2

The Perfect Numbers (PN) fall on a Diagonal Line (GREEN) that is half the distance in STEPS -- and values -- from the next Complement Rectangle (CR) values on the YELLOW Diagonal Line.

The STEPS are the number of cells diagonally perpendicular to the the central Prime Diagonal (PD) (BLUE), with the point of origin being that of the Mersenne Prime Square (MPS) = Z^2 where x=2^p-1, y=x-1, and z= 2^p -1.

See Table 132 for x, y, z, PN, CR,... values

MPS=z²=9

4CR+2x=CR-next

4•12

+2•4=56

56+8=64

CR+x=x-next

MPS=z²=49

MPS=z²=225

*PD_i=16²=256=PN crosses PD

4CR+2x=CR-next

4•56

+2•8=240

240+16=256

CR+x=x-next

MPS=z²=961

4CR+2x=CR-next

4•240

+2•16=992

992+32=1024

CR+x=x-next

MPS=z²=3969

4CR+2x=CR-next

4•992

+2•32=4032

4032+64=4096

CR+x=x-next...

5

The first four Mersenne PRIME - Perfect Number Squares on the BIM