Answer key - Problem Solving April 26 - 30

Due Tues:

25.2) 125 25.4) $(e_1 + 1)(e_2 + 1)(e_3 + 1) \ldots (e_k + 1)$ 25. 6) 49

Due Wed:

25. 8) 358800 25.10) 5400

Due Thurs:

25.12) 25.14) 5040, 210, 120

Due Fri:

25.16) 8, 4 25.18) 126

Due Mon:

25.20) 330 25.22) n! / k!(n-k)! 25.24) 1

25.26)

$$\left\{ \begin{matrix} n \\ k \end{matrix} \right\} = \frac{n!}{k!\,(n - k!)}$$

$$\left\{ \begin{matrix} n \\ (n-k) \end{matrix} \right\} = \frac{n!}{(n-k)!(n - (n-k))!} = \frac{n!}{(n - k)!\,k!}$$

25.28) $n!/ k_1!\, k_2! \ldots k_j!$