

① unvsu2l

$$1 \text{ u fixed, } \frac{4}{1} = 4$$

$$2 \text{ u fixed } \frac{4}{2} = 2$$

$$3 \text{ u fixed } \frac{4}{3} = 1$$

$$1+2+1 = 4 \text{ unique subsets}$$

$$5 = 4 \times 3 \times 2 \times 1 = \boxed{120}$$

②

$$\begin{array}{cccc} 15 & \times & 4 & \times & 4 & \times & 44 \\ 2 & & 2 & & 2 & & 1 \end{array}$$

$$78 \times 6 \times 6 \times 44 = \boxed{123552}$$

③ Find ways distribute 15 songs to 6 couples