Erratum

Solutions to Review sheet 1

Exercise H.   For questions 2 and 3, the answers should be $2 \cdot (5)_2$ and $2 \cdot (5)_2 - 2 - 2 \cdot 2 \cdot 3$ (eliminate doubles coming from words like TAT, and like BAT). The answer to question 3 can also be seen as $2 \cdot (4)_2 + 2$.

Exercise K.   For question 2, that should be groups of 4 and 3 people, which gives

$$\frac{4! \cdot 3! \cdot 2}{\binom{9}{1,3,3,2}}.$$

If we stick to the original question, change the numerator to

$$4! \cdot (2 \cdot 3! + 4 \cdot 3).$$