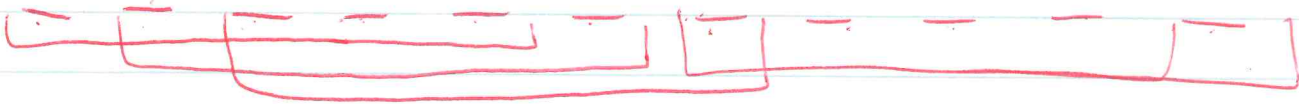


Key

1)



$$7 \cdot 5! = 840$$

↓ ↗ arranging the 5 people
ways we can seat 5 consecutive

2)

$$3! \cdot 5! \cdot 3! \cdot 3! \rightarrow \text{yellow books} = 25920$$

↓ ↘ ↘ ↘
3 groups of books red books blue books

3)

$$\frac{1}{R} \cdot \frac{4}{\text{not } R} \left(\frac{5!}{2!} \right)$$

↗ 5 letters left
2 identical R's.

$$4 \cdot (5 \cdot 4 \cdot 3) = 240.$$

Q.

$$4) \quad \underline{6} (6! - 5! \cdot 2!) \quad \underline{5}$$
$$= 14400$$

$$5) \quad \frac{1}{5} \cdot \frac{1}{3} \cdot \frac{2}{7} \cdot \frac{3}{8} = 6$$

$$\frac{1}{5} \cdot \frac{2}{7} \cdot \frac{4}{8} \cdot \frac{3}{8} = 24$$

$$\frac{2}{7} \cdot \frac{5}{8} \cdot \frac{4}{8} \cdot \frac{3}{8} = \frac{120}{150}$$