



## Combinatorics - SOLUTIONS

1.  $\frac{4}{7}$
2.
  - i.  $\frac{7}{24}$
  - ii.  $\frac{7}{40}$
3.
  - i.  $\frac{9}{182}$
  - ii.  $\frac{5}{182}$
  - iii.  $\frac{31}{364}$
  - iv.  $\frac{45}{182}$
  - v.  $\frac{137}{182}$
4.
  - i. 324632
  - ii. 150
  - iii. 4350
5.
  - i.  $\frac{1}{14}$
  - ii.  $\frac{1}{210}$
  - iii.  $\frac{19}{42}$
  - iv.  $\frac{2}{15}$
  - v.  $\frac{4}{9}$
  - vi.  $\frac{8}{15}$
6.
  - i.  $\frac{3}{10}$
  - ii.  $\frac{1}{12}$

Leamy Maths Community

