## HSC Worked Solutions



- TG 6 In horse racing, betting on the trifecta pays on the first three horses in correct order, whilePC the quinella pays on the first two horses in either order.
  - (a) In a 12-horse race, determine the number of possible quinellas.
  - (b) The Melbourne Cup is a 17-horse race.

Determine the number of possible trifectas.

(a)  ${}^{12}C_2 = 66$ 

(b) 17 × 16 × 15 = 4080

\* These solutions have been provided by *projectmaths* and are not supplied or endorsed by NESA.

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