TG
6 In horse racing, betting on the trifecta pays on the first three horses in correct order, while PC 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) $17 \times 16 \times 15=4080$

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

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