TG 3 (a) In how many ways can the numbers 1, 2, 3, 4, 5, 6 be arranged around a circle?
PC
(b) How many of these arrangements have at least two even numbers together?
(a) $\frac{6!}{6}=5!$

$$
=120
$$

(b) Consider the number of ways when the odd and even number are alternating: 2 ! $\times 3!=12$.

Arrangements when at least two even numbers together $=120-12=108$.

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

