

STATS 1 REVISION SELECTIONS AND ARRANGEMENTS (FROM OCR PAPERS)

10)

i) 7 Ashville 8 Benton

$$\frac{7C2 \times 8C3}{15C5} = \frac{21 \times 56}{3003} = \frac{1176}{3003} = 0.3916$$

ii)

$$\begin{array}{ccccc} B & & A & & B & & A & & B \\ 3 & \times & \boxed{2} & \times & 2 & \times & \boxed{1} & \times & 1 \end{array}$$

Sit two Ashville as shown, then sit Benton in the 3 gaps

$$= 3 \times 2 \times 2 \times 1 \times 1 \text{ arrangements}$$

$$= 12 \text{ arrangements}$$