

10.2.1	6! $= 6 \times 5 \times 4 \times 3 \times 2 \times 1$ $= 720$	✓ 6! ✓ answer (2)
10.2.2	number of ways Xoliswa sits next to Anees/ <i>getal maniere waarop Xoliswa langs Anees sit</i> $= 5! \times 2$ $= 240$ OR/OF Regard Xoliswa and Anees as a single entity/<i>Beskou Xoliswa en Anees as een</i> Number of ways in which 5 passengers can be arranged $= 5!$ <i>Getal maniere waarop 5 passasiers gerangskik kan word</i> $= 5!$ So 5! different arrangements for KA and 5! different arrangements for AX <i>So 5! verskillende rangskikkings vir KA en 5! verskillende rangskikkings vir AX</i> number of ways Xoliswa sits next to Anees <i>getal maniere waarop Xoliswa langs Anees sit</i> $= 5! \times 2$ $= 240$	✓ $5! \times 2$ ✓ answer (2) ✓ $5! + 5!$ ✓ answer (2)
10.2.3	number of ways Mary is at an end of the row on the left $= 1 \times 5!$ number of ways Mary is at an end of the row on the right $= 5! \times 1$ total number of arrangements $= 6!$ $P(\text{Mary is at an end of the row}) = \frac{5! \times 1 + 1 \times 5!}{6!}$ $= \frac{1}{3}$ <i>getal maniere waarop Mary aan die einde van die ry links is</i> $= 1 \times 5!$ <i>getal maniere waarop Mary aan die einde van die ry regs is</i> $= 5! \times 1$ <i>totale getal rangskikkings</i> $= 6!$ $P(\text{Mary is aan einde van die ry}) = \frac{5! \times 1 + 1 \times 5!}{6!}$ $= \frac{1}{3}$	✓ both LHS and RHS ways ✓ 6 ! ✓ setting up probability ✓ answer (4) [15]
	TOTAL/TOTAAL:	150

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Daniel Král', Martin Milanič



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