



ERRATA

MATHEMATICAL APPLICATIONS (Second edition)

MATHEMATICS FOR YEAR 12

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page 235 **EXERCISE 4F.1**

- 3 a** What is the meaning of the number in:
- i** row 1, column 3
 - ii** row 3, column 1?

page 301 **EXERCISE 5H** correct spelling

- 9 a** Find how many of each type of cake Elsie should make to maximise her profit if the shop makes \$5 on a chocolate cheesecake and \$6 on a lemon cheesecake.

page 301 **BLUE BOX** at the bottom of the page – correct spelling

If the variable for which you are finding optimal solutions is **continuous** (for example weight, volume, etc.) then a non-integer solution is perfectly acceptable.

In such cases the optimal solution will always be at a vertex or along a boundary of the feasible region.

page 553 **EXERCISE 4F.2**

- 4 e** It is not reasonable to base plans on these figures, as if living conditions change on one of the islands, the **transition** matrix might change, and a different steady state will be reached.
- 5 e** The **transition** matrix does not change, the courier constantly has documents to **deliver**, etc.

page 565 **ANSWERS REVIEW SET 5**

- 7 b i** 4 water meters, 7 gas meters

page 567 **ANSWERS EXERCISE 6D**

- 4 d ii** The bookmaker also has zero expectation for the bet in this case. If this were the case, he would make no profit. In reality, the probability calculated from the odds is slightly higher than the horse's actual probability of winning, allowing the book-maker to make a profit. The punter can expect to lose money in the long run.