
O Level E Maths Tutorial 9: Matrices

Syllabus:

- display of information in the form of a matrix of any order
- interpreting the data in a given matrix

1. Given matrices

$$A = (2 \ 1)$$

 $(3 \ 0)$

$$B = \begin{pmatrix} 1 & 4 \\ (2 & 5) \end{pmatrix}$$

Find the product AB.

- product of a scalar quantity and a matrix
- 2. Using the matrices in question 1 above, find
 - (i) 2A
 - (ii) 3B
- problems involving the calculation of the sum and product (where appropriate) of two matrices
- 3. Cheng needs 5 apples and 10 oranges. Xin wants 6 apples and 8 oranges. This information can be represented by the matrix

$$P = (5 \ 10)$$

In a store, an apple cost \$2 and an orange cost \$3. Online, it cost, an apple cost \$2.20 and an orange cost \$2.60. This can be displayed as

$$Q = (2.00 \quad 2.20) \\ (3.10 \quad 2.60)$$

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- (i) Find PQ.
- (ii) Explain the meaning of each element in PQ..