

5. A fruit grower raises two crops, which are shipped to three outlets.

The number of units of product i that is shipped to outlet j is represented by b_{ij} in the matrix $B = \begin{bmatrix} 100 & 75 & 75 \\ 125 & 150 & 100 \end{bmatrix}$

The profit of one unit of product i is represented by a_i in the matrix $A = [\$3.75 \quad \$7.00]$

Does the matrix multiplication BA make sense?

- a) yes and I have a good reason why
- b) yes but I am unsure of why
- c) no but I am unsure of why not
- d) no and I have a good reason of why not

6. A fruit grower raises two crops, which are shipped to three outlets.

The number of units of product i that is shipped to outlet j is represented by b_{ij} in the matrix $B = \begin{bmatrix} 100 & 75 & 75 \\ 125 & 150 & 100 \end{bmatrix}$

The profit of one unit of product i is represented by a_i in the matrix $A = [\$3.75 \quad \$7.00]$

Does the matrix multiplication AB make sense?

- a) AB is not defined
- b) AB has just 1 entry (i.e. a number)
- c) AB has 2 entries
- d) One entry in AB looks like $3.75 \times 100 + 3.75 \times 125$
- e) AB is defined but none of the above are true

Solutions

5. d)

6. e)