Practice worksheet | Matrices and networks

Costing/inventory models

Name: _____ Date: _____

6 questions | 12 marks

1. Find order costs for $Q=\begin{pmatrix}2 & 5\\4 & 1\end{pmatrix}$ and $P=\begin{pmatrix}7\\3\end{pmatrix}$. [2 marks]

2. Stock is $\begin{pmatrix}20\\15\\8\end{pmatrix}$ and sales $\begin{pmatrix}7\\4\\3\end{pmatrix}$. Find remaining stock. [2 marks]

3. A quantity matrix has 3 shop rows and 4 product columns. What order must a price column have? [2 marks]

4. Three items priced p dollars each and two items priced 4 dollars each cost 29 dollars. Find p. [2 marks]

5. A stock calculation returns -2 items. Give a sensible response. [2 marks]

6. A subtotal of 80 dollars attracts a uniform 10% delivery surcharge. Find the total. [2 marks]