Multiplying Matrices Names:

Math 240

1. Multiply the matrices:



1. Multiply the matrices: 
2. Multiply the matrices: 

A manufacturer wishes to make two different bronze alloys. The quantities of copper, tin, and zinc needed are indicated in the first table (matrix M.) The costs for these materials (in dollars per pound) from two suppliers are summarized in the second table (Matrix N.)

|  |  |  |  |
| --- | --- | --- | --- |
| Matrix M | Copper | Tin | Zinc |
| Alloy 1 | 4,800 lb | 600 lb | 300 lb |
| Alloy 2 | 6,000 lb | 1,400 lb | 700 lb |

|  |  |  |
| --- | --- | --- |
| Matrix N | Supplier A | Supplier B |
| Copper | $0.75 / lb | $0.70 / lb |
| Tin | $6.50 / lb | $ 6.70 / lb |
| Zinc | $0.40 / lb | $0.50 / lb |

1. Find the product MN.
2. Find the product NM.
3. Which of these contains meaningful information, and what does its entries represent? ( Provide a title and label the rows and columns)