Review 8-3

1. We can multiply two matrices A and B only if they are compatible. Explain the meaning of **compatible**.

2. What is the dimension of the matrix product AB if A is a $p \times q$ matrix and B is a $q \times r$ matrix?

3. Count the number of scalar multiplications to multiply A and B where A is a $p \times q$ matrix and B is a $q \times r$ matrix.

