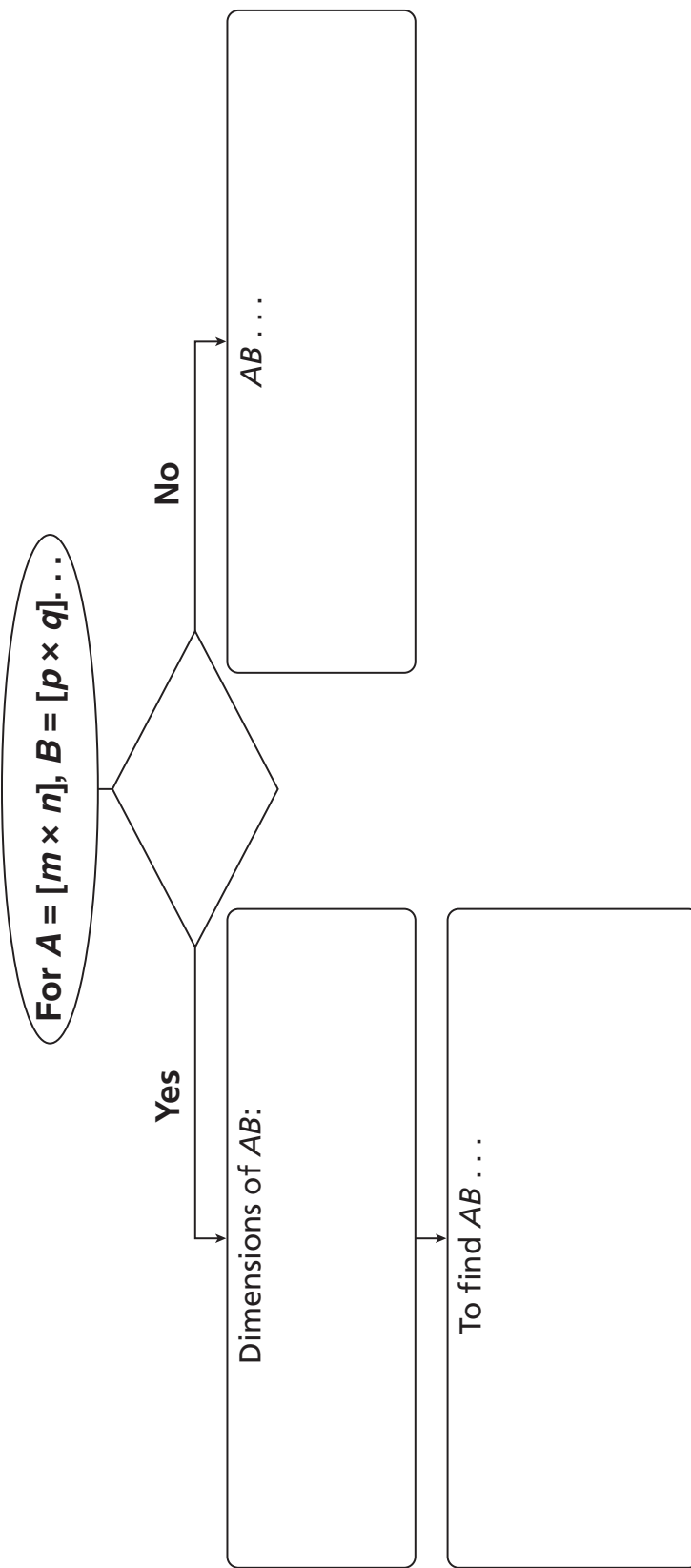**8. Get Organized** In the decision diamond, enter a question to determine whether AB is defined. Then give the general procedure for finding AB, if it is defined. (p. 256).

For $A = [m \times n]$, $B = [p \times q]$...

No

AB . . .

Yes

Dimensions of AB:

To find AB . . .

Algebra 2

8. Get Organized In the decision diamond, enter a question to determine whether *AB* is defined. Then give the general procedure for finding *AB*, if it is defined. (p. 256).

For A = [*m* × *n*], B = [*p* × *q*]. . .

Does *n* = *p*?

No

AB . . .
is not defined.

Yes

Dimensions of *AB*:
m × *q*

To find *AB* . . .
each element in *AB*, ab_{ij}, is the sum of the products of corresponding entries in row *i* in matrix *A* and column *j* in matrix *B*.

Algebra 2