



A diagram illustrating the dimensions of matrices involved in a multiplication. It consists of three rectangles: a top-right rectangle labeled $n \times p$, a bottom-left rectangle labeled $m \times n$, and a bottom-right rectangle labeled $m \times p$. A multiplication symbol \times is positioned between the top-right and bottom-left rectangles, indicating the operation being performed.

$$n \times p$$

 \times

$$m \times n$$

$$m \times p$$