## Reading the Lesson

1. For each pair of matrices, give the dimensions of the indicated sum, difference, or scalar product. If the indicated sum, difference, or scalar product does not exist, write impossible.
$A=\left[\begin{array}{rrr}3 & 5 & 6 \\ -2 & 8 & 1\end{array}\right]$
$B=\left[\begin{array}{rr}-4 & 0 \\ 0 & -5\end{array}\right]$
$A B=\square$
$C=\left[\begin{array}{rr}5 & 10 \\ -3 & 6 \\ 4 & 12\end{array}\right]$
$D=\left[\begin{array}{lll}-3 & 6 & 0 \\ -8 & 4 & 0\end{array}\right]$
$B C=$
$C+D:$ $\qquad$ $5 B$ : $\qquad$
$A+D:$ $\qquad$
$C D=$ $\qquad$

## $\mathrm{AB}, \mathrm{BC}, \mathrm{CD}$ are all MULTIPLICATION problems!!!

