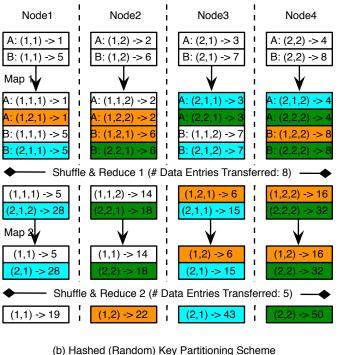
$$\left(\begin{array}{cc} 1 & 2 \\ 3 & 4 \end{array}\right) \times \left(\begin{array}{cc} 5 & 6 \\ 7 & 8 \end{array}\right)$$

(a) Matrix A × B



## (b) Hashed (handom) Key Faithforning Scheme

Shuffle & Reduce 1 (# Data Entries Transferred: 8)   

$$(1,1,1) -> 5$$

$$(1,1,2) -> 14$$

$$(1,2,2) -> 16$$

$$(1,2,2) -> 16$$

$$(1,2,2) -> 16$$

$$(1,2,2) -> 16$$

$$(1,2,2) -> 16$$

$$(1,2,2) -> 16$$

$$(1,2,2) -> 16$$

$$(2,1,2) -> 28$$

$$(2,2,2) -> 32$$

$$(2,1) -> 28$$

$$(2,2) -> 32$$

$$(2,1) -> 28$$

$$(2,2) -> 32$$

$$(2,1) -> 28$$

$$(2,2) -> 32$$

$$(2,2) -> 32$$

$$(2,1) -> 28$$

$$(2,2) -> 32$$

$$(2,1) -> 28$$

$$(2,2) -> 32$$

$$(2,1) -> 28$$

$$(2,2) -> 32$$

(1,2) -> 22

 $(1,1) \rightarrow 19$ 

(2,2) -> 50

(2,1) -> 43