## Multiply 3-Digit and 3-Digit Numbers



## STEP 2: Multiply $746 \times 3$.

a) $3 \times 6=18$. Put 8 at R8C5. Carry 1 to R2C5.
b) $3 \times 4=12$. Add carried 1 to $12=13$. Put 3 at R8C4. Carry 1 to R2C4.
c) $3 \times 7=21$. Add carried 1 to $21=22$. Put 2 at R8C3 and put 2 at R8C2.
d) Answer to $746 \times 3=\mathbf{2 2 3 8}$ goes in R8.

## STEP 3: Multiply $746 \times 9$.

a) $9 \times 6=54$. Put 4 at R9C4.

Carry 5 to R1C5.
b) $9 \times 4=36$. Add carried 5 to $36=41$. Put 1 at R9C3. Carry 4 to R1C4.
c) $9 \times 7=63$. Add carried 4 to $63=67$. Put 7 at R9C2 and put 6 at R9C1.
d) Answer to $746 \times 9=6714$ goes in R9.

## STEP 4: Fill blanks with 0's.

Put 0's in R8C6, R9C6, and R9C5 as placeholders.

## STEP 5: Add the numbers.

a) Carry as needed and put carries in R6.
b) Put answer of sum, 697510, in R10.

