How to Multiply by Double Digits

```
    4  (5)
x   3  (6)
```

Step 1 Multiply the ones on the bottom by the ones on the top
6 ones x 5 ones = 30 ones
30 ones = **3** tens and **0** ones

```
    3
    4  5
x   3  6
       0
```

Step 2 Put the ones in the ones place and regroup the tens
above the tens place

```
    3
    4  5
x   3  6
 2  7  0
```

Step 3 Multiply the bottom ones by the top tens
6 ones x 4 tens = **24** tens

Step 4 Add the tens you regrouped in step 2
24 tens + **3** tens = **27** tens

Step 5 Write down the answer to step 4 next to the ones

```
    3
    4  5
x   3  6
 2  7  0
       0
```

Step 6 You now will be multiplying with the tens column
Write a 0 in the ones column

```
    3
    4  5
x   3  6
 2  7  0
       0
```

Step 7 Multiply the tens on the bottom by the ones on the top
3 tens x 5 ones = 15 tens
15 tens = **1** hundred and **5** tens

```
    1
    3
    4  5
x   3  6
 2  7  0
    5  0
```

Step 8 Put the tens next to the 0 from step 6 and regroup the
hundreds by placing them above the tens column

```
      1
      3̶
    4  5        Step 9    Multiply the tens on the bottom by the tens on the top
 x  3  6                  3 tens x 4 tens = 12 hundreds
    2  7  0
       5  0     Step 10   Add the regrouped amount from step 8
                          12 hundreds + 1 hundred = 13 hundreds


      1
      3̶
    4  5        Step 11   Write down the answer to step 10
 x  3  6
    2  7  0
 1  3  5  0


      1
      3̶
    4  5        Step 12   Add the two numbers
 x  3  6                  0 ones + 0 ones = 0 ones
      1
    2  7  0
+ 1  3  5  0              7 tens + 5 tens = 12 tens
 1  6  2  0              12 tens = 1 hundred and 2 tens
                          Write the 2 in the tens place and regroup the 1 hundred

                          1 hundred + 2 hundreds + 3 hundreds = 6 hundreds

                          0 thousands + 1 thousand = 1 thousand
```