

MULTIPLICATION REVIEW

Single-digit, by single-digit, no carry-over

*With single digit multiplication, by another single digit, place the answer directly underneath the numbers that you are multiplying

$$\begin{array}{r} 2 \\ \times 1 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ \times 1 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 1 \\ \times 1 \\ \hline \end{array}$$

$$\begin{array}{r} 1 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 1 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 1 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 1 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 1 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 1 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 1 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 1 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 1 \\ \times 0 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ \times 0 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ \times 0 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ \times 0 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ \times 0 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ \times 0 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ \times 0 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ \times 0 \\ \hline \end{array}$$

Single-digit, by single-digit, with carry-over

*With single digit multiplication, by another single digit, place the answer directly underneath the numbers that you are multiplying. Line up the numbers so that the numbers on the right are all in a straight column. Look at the example below:

$$\begin{array}{r} 5 \\ \times 5 \\ \hline 25 \end{array}$$

$$\begin{array}{r} 5 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ \times 9 \\ \hline \end{array}$$

Double-digit, by single-digit, with no carry-over

*Look at the explanation below, then calculate the rest of the questions:

$\begin{array}{r} 21 \\ \times 3 \\ \hline \end{array}$ Step one: Multiply the bottom right number by the top right number.	$\begin{array}{r} 21 \\ \times 3 \\ \hline 3 \end{array}$ Write your answer in directly beneath the numbers that you just multiplied	$\begin{array}{r} 21 \\ \times 3 \\ \hline 3 \end{array}$ Step two: multiply the bottom right number, by the next number on the left, on the top	$\begin{array}{r} 21 \\ \times 3 \\ \hline 63 \end{array}$ Write your answer on the answer line directly under the top number that you just used to multiply. Now you are finished
$\begin{array}{r} 21 \\ \times 3 \\ \hline \end{array}$	$\begin{array}{r} 21 \\ \times 4 \\ \hline \end{array}$	$\begin{array}{r} 21 \\ \times 1 \\ \hline \end{array}$	$\begin{array}{r} 21 \\ \times 0 \\ \hline \end{array}$
$\begin{array}{r} 22 \\ \times 1 \\ \hline \end{array}$	$\begin{array}{r} 22 \\ \times 2 \\ \hline \end{array}$	$\begin{array}{r} 22 \\ \times 3 \\ \hline \end{array}$	$\begin{array}{r} 22 \\ \times 4 \\ \hline \end{array}$
$\begin{array}{r} 12 \\ \times 3 \\ \hline \end{array}$	$\begin{array}{r} 11 \\ \times 3 \\ \hline \end{array}$	$\begin{array}{r} 13 \\ \times 3 \\ \hline \end{array}$	$\begin{array}{r} 14 \\ \times 2 \\ \hline \end{array}$
$\begin{array}{r} 14 \\ \times 1 \\ \hline \end{array}$	$\begin{array}{r} 13 \\ \times 2 \\ \hline \end{array}$	$\begin{array}{r} 12 \\ \times 2 \\ \hline \end{array}$	$\begin{array}{r} 11 \\ \times 2 \\ \hline \end{array}$

$$\begin{array}{r} 20 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 20 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 20 \\ \times 1 \\ \hline \end{array}$$

$$\begin{array}{r} 20 \\ \times 1 \\ \hline \end{array}$$

$$\begin{array}{r} 23 \\ \times 1 \\ \hline \end{array}$$

$$\begin{array}{r} 23 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 22 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 23 \\ \times 0 \\ \hline \end{array}$$

$$\begin{array}{r} 32 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 32 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 32 \\ \times 1 \\ \hline \end{array}$$

$$\begin{array}{r} 32 \\ \times 0 \\ \hline \end{array}$$

$$\begin{array}{r} 33 \\ \times 1 \\ \hline \end{array}$$

$$\begin{array}{r} 33 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 33 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 33 \\ \times 0 \\ \hline \end{array}$$

$$\begin{array}{r} 44 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 44 \\ \times 1 \\ \hline \end{array}$$

$$\begin{array}{r} 44 \\ \times 0 \\ \hline \end{array}$$

$$\begin{array}{r} 43 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 43 \\ \times 1 \\ \hline \end{array}$$

$$\begin{array}{r} 43 \\ \times 0 \\ \hline \end{array}$$

$$\begin{array}{r} 34 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 34 \\ \times 1 \\ \hline \end{array}$$

$$\begin{array}{r} 34 \\ \times 0 \\ \hline \end{array}$$

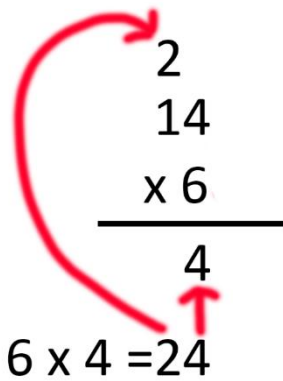
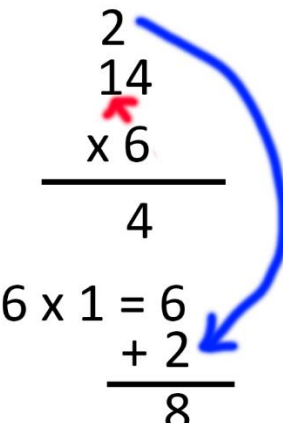
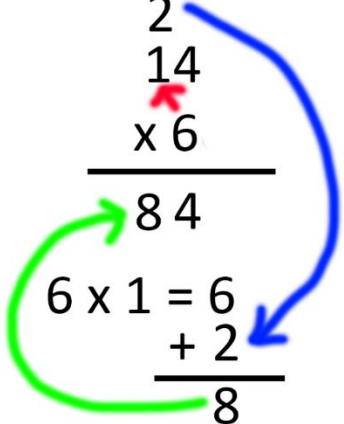
$$\begin{array}{r} 12 \\ \times 1 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \\ \times 4 \\ \hline \end{array}$$

Double-digit, by single-digit, with 1 example of carry-over

*Look at the explanation below, then calculate the rest of the questions:

$\begin{array}{r} 14 \\ \times 6 \\ \hline \end{array}$ Step one: Multiply the bottom right number, by the number directly on top	$\begin{array}{r} 14 \\ \times 6 \\ \hline \end{array}$ Step two: Write down the answer on your page so that you can see what it is $6 \times 4 = 24$	 Step three: The number on the right, goes on the right, directly beneath the numbers that you are multiplying. The number on the left, goes on the left - directly on top of the NEXT number to the left.	
$\begin{array}{r} 2 \\ 14 \\ \times 6 \\ \hline 4 \end{array}$ Step four: multiply the bottom right number, by the next number on the top. Write your work so that you can see your numbers $6 \times 1 = 6$	Step five: add the number that was carried over, to the number that you just calculated by multiplying $\begin{array}{r} 2 \\ 14 \\ \times 6 \\ \hline 4 \end{array}$ $6 \times 1 = 6$ $\begin{array}{r} 6 \\ + 2 \\ \hline 8 \end{array}$		
	Step six: add that new number, into your answer line. Now you are finished. The answer is on the answer line.	$\begin{array}{r} 24 \\ \times 4 \\ \hline \end{array}$	$\begin{array}{r} 25 \\ \times 2 \\ \hline \end{array}$
$\begin{array}{r} 26 \\ \times 2 \\ \hline \end{array}$	$\begin{array}{r} 26 \\ \times 3 \\ \hline \end{array}$	$\begin{array}{r} 27 \\ \times 2 \\ \hline \end{array}$	$\begin{array}{r} 28 \\ \times 2 \\ \hline \end{array}$

$$\begin{array}{r} 29 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 28 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 27 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 26 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 25 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 24 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 23 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 24 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 25 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 26 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 27 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 28 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 29 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 36 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 37 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 38 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 39 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 35 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 45 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 46 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 45 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 45 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 45 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 45 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 54 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 54 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 54 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 54 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 45 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 45 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 45 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 65 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 65 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 65 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 65 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 65 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 66 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 66 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 66 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 66 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 77 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 77 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 77 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 77 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 78 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 78 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 78 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 78 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 82 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 83 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 84 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 85 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 86 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 87 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 88 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 89 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 90 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 91 \\ \times 8 \\ \hline \end{array}$$

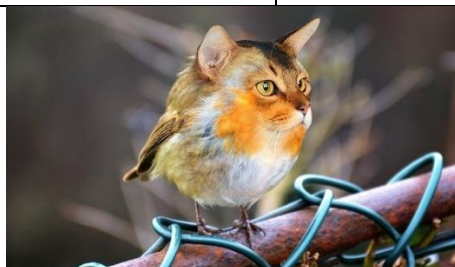
$$\begin{array}{r} 92 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 93 \\ \times 4 \\ \hline \end{array}$$

Double-digit, by single-digit, with 2 examples of carry-over

*Look at the explanation below, then calculate the rest of the questions:

$\begin{array}{r} 56 \\ \times 4 \\ \hline \end{array}$ Step one: Multiply the bottom right number, by the number directly on top	$\begin{array}{r} 56 \\ \times 4 \\ \hline \end{array}$ $6 \times 4 = 24$ Step two: Write down the answer on your page so that you can see what it is	$\begin{array}{r} 2 \\ 56 \\ \times 4 \\ \hline 4 \\ 6 \times 4 = 24 \end{array}$ Step three: The number on the right, goes on the right, directly beneath the numbers that you are multiplying. The number on the left, goes on the left - directly on top of the NEXT number to the left.
$\begin{array}{r} 2 \\ 56 \\ \times 4 \\ \hline 4 \end{array}$ $4 \times 5 = 20$	Step four: multiply the bottom right number, by the next number on the top. Write your work so that you can see your numbers	$\begin{array}{r} 2 \\ 56 \\ \times 4 \\ \hline 4 \end{array}$ $4 \times 5 = 20$ $\begin{array}{r} +2 \\ \hline 22 \end{array}$ Step five: add the number that was carried over, to the number that you just calculated by multiplying
$\begin{array}{r} 2 \\ 56 \\ \times 4 \\ \hline 224 \end{array}$ $4 \times 5 = 20$ $\begin{array}{r} +2 \\ \hline 22 \end{array}$	Step six: add that new number, into your answer line. Make sure that each number is lined up nicely in its own column. Now you are finished. The answer is on the answer line.	$\begin{array}{r} 45 \\ \times 4 \\ \hline \end{array}$



$$\begin{array}{r} 46 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 47 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 48 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 49 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 54 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 55 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 55 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 55 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 55 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 55 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 56 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 56 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 75 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 75 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 75 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 75 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 75 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 75 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 88 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 88 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 88 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 88 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 88 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 88 \\ \times 4 \\ \hline \end{array}$$

Double-digit, by double-digit, no carry-over

*Look at the explanation below, then calculate the rest of the questions:

$\begin{array}{r} 21 \\ \times 22 \\ \hline \end{array}$ top.	Step one: Multiply the bottom right number, by the number directly on	$\begin{array}{r} 21 \\ \times 22 \\ \hline 2 \end{array}$ $2 \times 1 = 2$ that you just multiplied	Step two: Write down the answer on your page so that you can see what it is. Place the answer directly beneath the numbers	$\begin{array}{r} 21 \\ \times 22 \\ \hline 2 \end{array}$ $2 \times 2 = 4$ can see your numbers.	Step three: multiply the bottom right number, by the next number on the left, on the top. Write down your answer on the page, so that you
$\begin{array}{r} 21 \\ \times 22 \\ \hline 42 \end{array}$ $2 \times 2 = 4$	Step four: write the answer in the next column, on the answer line	$\begin{array}{r} 21 \\ \times 22 \\ \hline 42 \\ 0 \end{array}$	Step five: cross off the first number on the bottom that you used to multiply. You are now finished with that number. Under your answer line, you will now have a SECOND answer line. In the column on the right, write in a 0. This is because every time you move from one column in the place value to another, you add a zero.		
$\begin{array}{r} 21 \\ \times 22 \\ \hline 42 \\ 0 \end{array}$ $2 \times 1 = 2$	Step six: go to the next number on the left, in the bottom number. Use that number to multiply the number on the right, on the top. Write your work on your paper so that you can see your numbers.	$\begin{array}{r} 21 \\ \times 22 \\ \hline 42 \\ 20 \end{array}$ $2 \times 1 = 2$	Step seven: move that number to the answer line		
$\begin{array}{r} 21 \\ \times 22 \\ \hline 42 \\ 20 \end{array}$ $2 \times 2 = 4$	Step eight: now multiply the bottom number, by the next number to the left on the top. Write your work on your paper so that you can see your numbers.	$\begin{array}{r} 21 \\ \times 22 \\ \hline 42 \\ 420 \end{array}$ $2 \times 2 = 4$	Step nine: put that number on the answer line, in the next column to the left.		
$\begin{array}{r} 21 \\ \times 22 \\ \hline 42 \\ + 420 \\ \hline 462 \end{array}$	Step ten: add the two answer lines together. The third answer line is the final answer line				

$$\begin{array}{r} 11 \\ \times 11 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \\ \times 11 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \\ \times 21 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \\ \times 12 \\ \hline \end{array}$$

$$\begin{array}{r} 21 \\ \times 21 \\ \hline \end{array}$$

$$\begin{array}{r} 20 \\ \times 11 \\ \hline \end{array}$$

$$\begin{array}{r} 20 \\ \times 20 \\ \hline \end{array}$$

$$\begin{array}{r} 11 \\ \times 12 \\ \hline \end{array}$$

$$\begin{array}{r} 11 \\ \times 22 \\ \hline \end{array}$$

$$\begin{array}{r} 22 \\ \times 11 \\ \hline \end{array}$$

$$\begin{array}{r} 22 \\ \times 22 \\ \hline \end{array}$$

$$\begin{array}{r} 22 \\ \times 10 \\ \hline \end{array}$$

Double-digit, by double-digit, with carry-over

*Look at the explanation below, then calculate the rest of the questions:

$\begin{array}{r} 34 \\ \times 55 \\ \hline \end{array}$ Step one: multiply the bottom right number, by the top right number. Write your numbers out, so that you can see them better $5 \times 4 = 20$	$\begin{array}{r} 2 \\ 34 \\ \times 55 \\ \hline 0 \end{array}$ Step two: the number on the right, goes on the bottom right. The number on the left, goes up top, on the left $5 \times 4 = 20$
$\begin{array}{r} 2 \\ 34 \\ \times 55 \\ \hline 0 \end{array}$ Step three: multiply the bottom right number, by the next number on the left on the top. Write your numbers out, so that you can see them better $3 \times 5 = 15$	$\begin{array}{r} 2 \\ 34 \\ \times 55 \\ \hline 0 \end{array}$ Step four: After you multiply, you need to add in any numbers that are hanging around on top of the number in the top row. $3 \times 5 = 15$ $+2$ $\hline 17$
$\begin{array}{r} 1 \ 2 \\ 34 \\ \times 55 \\ \hline 70 \end{array}$ Step five: the number on the right, goes on the answer line, on the right. The number on the left, goes up top, on the left. $3 \times 5 = 15$ $+2$ $\hline 17$	$\begin{array}{r} 1 \ 2 \\ 34 \\ \times 55 \\ \hline 1 \ 70 \end{array}$ Step six: if there is nothing to add that number on the top to, then bring it all the way down to the answer line.
$\begin{array}{r} 34 \\ \times 55 \\ \hline 170 \end{array}$ Step seven: you are now finished with the bottom right number, so you can scratch it off. After you scratch it off, add a 0 underneath. We do this because when we move from one column in place value to the next, we add a 0. Also, erase or scratch off any numbers that you had to add above your question. You don't need them anymore, and if you keep them there, then they may distract or confuse you.	$\begin{array}{r} 34 \\ \times 55 \\ \hline 170 \end{array}$ Step eight: multiply the bottom left number, by the number on the top right. Write out your numbers so that you can see them better $5 \times 4 = 20$
$\begin{array}{r} 2 \\ 34 \\ \times 55 \\ \hline 170 \end{array}$ Step nine: write in your numbers. The number on the right goes on the right. The number on the left, goes up top on the left. $5 \times 4 = 20$	$\begin{array}{r} 2 \\ 34 \\ \times 55 \\ \hline 170 \end{array}$ Step ten: multiply the bottom left number, by the top left number. Write out your numbers so that you can see them better. $5 \times 3 = 15$
$\begin{array}{r} 2 \\ 34 \\ \times 55 \\ \hline 170 \end{array}$ Step eleven: bring down the number that was carried over, and add it to your answer. Write the right hand number on the right, and the left hand number on the top left. If there are no other numbers to add it to, you can bring it down to the answer line. $5 \times 3 = 15$ $+2$ $\hline 17$	$\begin{array}{r} 34 \\ \times 55 \\ \hline 170 \\ 1700 \\ \hline 1870 \end{array}$ Step twelve: add your two answer lines together, to get a third answer line. This third answer line is your final answer.

$$\begin{array}{r} 45 \\ \times 34 \\ \hline \end{array}$$

$$\begin{array}{r} 45 \\ \times 43 \\ \hline \end{array}$$

$$\begin{array}{r} 45 \\ \times 78 \\ \hline \end{array}$$

$$\begin{array}{r} 45 \\ \times 87 \\ \hline \end{array}$$

$$\begin{array}{r} 88 \\ \times 77 \\ \hline \end{array}$$

$$\begin{array}{r} 77 \\ \times 88 \\ \hline \end{array}$$

$$\begin{array}{r} 44 \\ \times 55 \\ \hline \end{array}$$

$$\begin{array}{r} 55 \\ \times 66 \\ \hline \end{array}$$

$$\begin{array}{r} 66 \\ \times 77 \\ \hline \end{array}$$

$$\begin{array}{r} 77 \\ \times 99 \\ \hline \end{array}$$

$$\begin{array}{r} 99 \\ \times 22 \\ \hline \end{array}$$

$$\begin{array}{r} 99 \\ \times 33 \\ \hline \end{array}$$

$$\begin{array}{r} 99 \\ \times 44 \\ \hline \end{array}$$

$$\begin{array}{r} 99 \\ \times 55 \\ \hline \end{array}$$

$$\begin{array}{r} 99 \\ \times 66 \\ \hline \end{array}$$

$$\begin{array}{r} 99 \\ \times 77 \\ \hline \end{array}$$

$$\begin{array}{r} 99 \\ \times 88 \\ \hline \end{array}$$

$$\begin{array}{r} 99 \\ \times 99 \\ \hline \end{array}$$

Use the same rules of carrying over to attempt 3-digit by 3-digit multiplication:

$$\begin{array}{r} 111 \\ \times 222 \\ \hline \end{array}$$

$$\begin{array}{r} 222 \\ \times 333 \\ \hline \end{array}$$

$$\begin{array}{r} 333 \\ \times 444 \\ \hline \end{array}$$

$$\begin{array}{r} 444 \\ \times 555 \\ \hline \end{array}$$

$$\begin{array}{r} 989 \\ \times 764 \\ \hline \end{array}$$

$$\begin{array}{r} 567 \\ \times 789 \\ \hline \end{array}$$