

Lesson 9 -

I can multiply 3  
digits by 1 digit

Today we will learn to multiply 3 digits by 1 digit. We use the same method as we would to multiply 2 digits by 1 digit, the only difference is we have to multiply the hundreds as well as the tens and ones.

Step 1-

$$217 \times 4 =$$

H T O

	2	1	7
x			4
<hr/>			
<hr/>			

Set out the numbers into the correct columns, if were multiplying 3 digits by 1, we should be using the hundred, tens and ones columns.

Step 2-

TH H T O

	2	1	7
x			4
			8
		2	

$$217 \times 4 =$$

Start at the ones column.

Multiplying  $7 \times 4 =$

$$7 \times 4 = 28$$

We will keep the 8 in the ones column and carry over the 2 tens. This will be placed underneath.

Step 3-

$$217 \times 4 =$$

H T O

	2	1	7
x			4
<hr/>			
		6	8
<hr/>			
		2	

Then we will multiply the one ten by the 4 ones.

Multiplying  $10 \times 4 =$

$$10 \times 4 = 40$$

Then we add the 2 tens we carried over from the previous step.

$$40 + 20 = 60$$

So the tens column will have 6 tens

Step 4-

$$217 \times 4 =$$

H T O

	2	1	7
x			4
<hr/>			
	8	6	8
<hr/>			
		2	

Now we will multiply the 2 hundreds by the 4 ones.

Multiplying  $200 \times 4 =$

$$200 \times 4 = 800$$

So the hundreds column will have 8 hundreds.

$$217 \times 4 = 864$$

	<b>2</b>	<b>1</b>	<b>7</b>
<b>x</b>			<b>4</b>
<hr/>			
	<b>8</b>	<b>6</b>	<b>8</b>
<hr/>			
		<b>2</b>	

*Let's try another one!*



Step 1-

$$621 \times 7 =$$

	Th	H	T	O
	6	2	1	
x			7	
<hr/>				7
<hr/>				

*Start at the ones column.*

*Multiplying 7 X 1 =*

$$7 \times 1 = 7$$

Step 2-

Th H T O

	6	2	1
x			7
<hr/>			
		4	7
<hr/>			
	1		

$$621 \times 7 =$$

Move onto the tens column.

Multiplying  $20 \times 7 =$

$$7 \times 20 = 140$$

If we partition 140, we have 1 hundred and 4 tens.

Step 3-

Th H T O

	6	2	1
x			7
4	3	4	7
4	1		

$$621 \times 7 =$$

Move onto the hundreds column.

Multiplying  $600 \times 7$  ( $6 \times 7$ ) =

$$7 \times 600 = 4200$$

Add the 100 we carried over to make 4300. Partitioned this would be 3 hundreds and 4 thousands.

Final step- add the 4 thousands (we don't need to multiply this as it is carried over).

$$621 \times 7 = 4347$$

	<b>6</b>	<b>2</b>	<b>1</b>
<b>x</b>			<b>7</b>
<hr/>			
<b>4</b>	<b>3</b>	<b>4</b>	<b>7</b>
<hr/>			
<b>4</b>	<b>1</b>		

# Your turn!

Try completing the activities on the activity 9 worksheet. You can work out the answers on your own piece of paper or use the sheet provided.