WALT: multiply numbers by 10, 100 and 1000
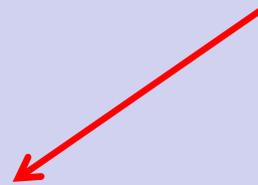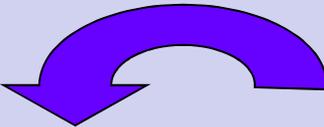
We will use this place value grid to help us work out the answer

Th	h	t	u

If we multiply any digit by 10 it will move one column to the left

x10

Th	h	t	u
			6
		6	0

We <u>must</u> put a 0 in the empty units column to hold the place so 6 x 10 = 60

Let's look at another number

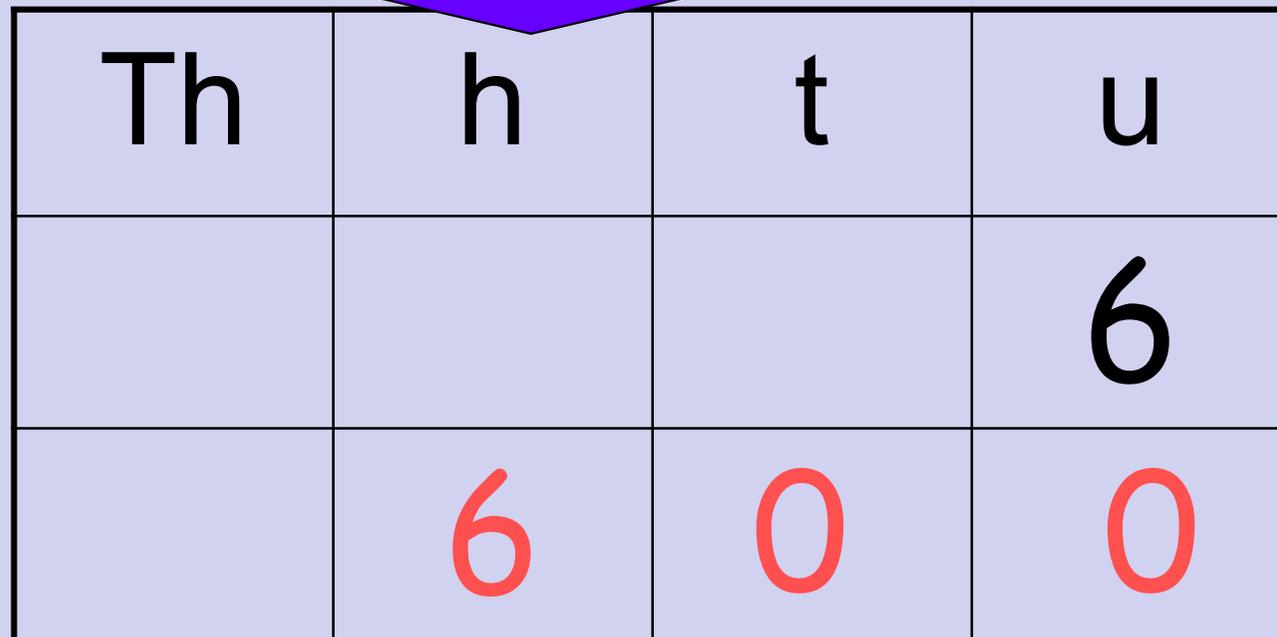x10
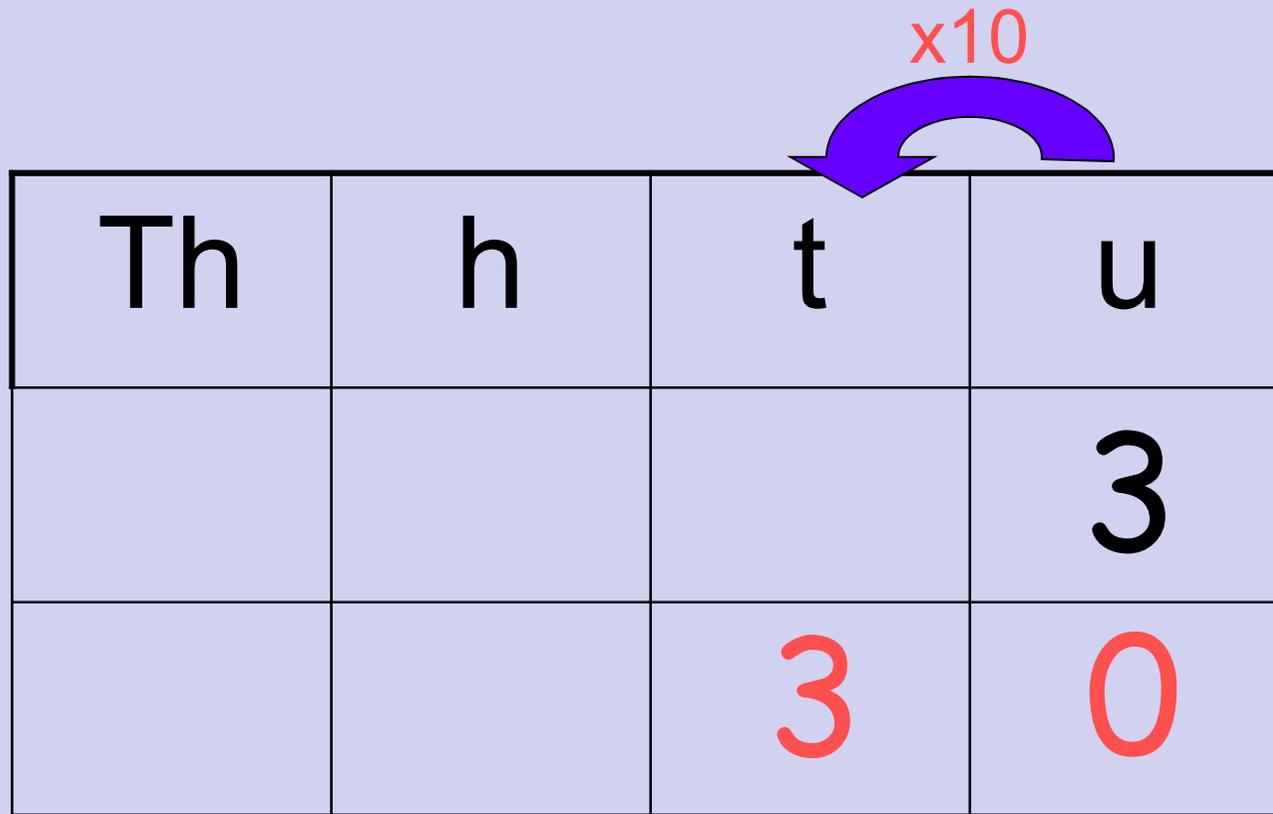
Th	h	t	u
			3
		3	0

Then we must remember to put the zero in to the hold the digits in place!

3 x 10 = 30

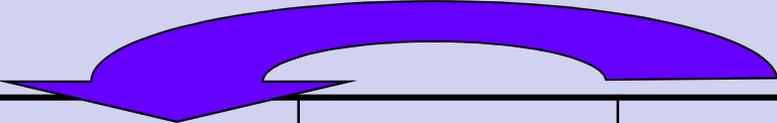If we multiply any digit by 100 it will move two columns to the left

X 100

Th	h	t	u
			6
	6	0	0

We <u>must</u> put a 0 in the empty columns to hold the place – 6 x 100 = 600

Let's try another number...
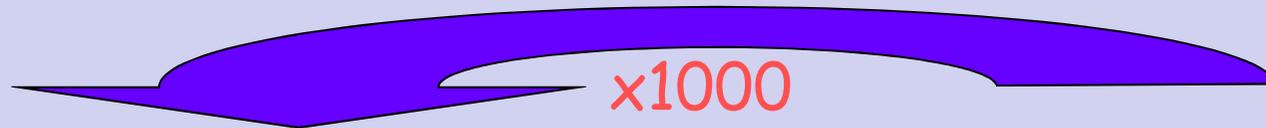
X 100

Th	h	t	u
			9
	9	0	0

We <u>must</u> put a 0 in the empty columns to hold the place –
9 x 100 = 900

If we multiply any digit by 1000 it will move three columns to the left

x1000

Th	h	t	u
			6
6	0	0	0

We <u>must</u> put a 0 in the empty columns to hold the place – 6 x 1000 = 6000

Let's try these examples!

9 x 10 =   90

13 x 10 =   1300

6 x 1000 =   6000

14 x 100 =   1400

5 x 100 =   500

Write the answers on your whiteboards.

Remember....

If you are x by 10 you move the digits ONE column to the left

If you are x by 100 you move the digits TWO columns to the left

If you are x by 1000 you move the digits THREE columns to the left

Don't forget to include the 0's to hold the place value!

Th	h	t	u