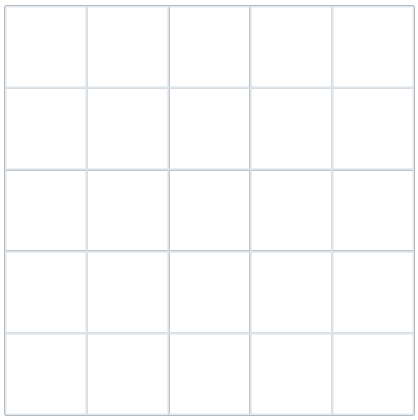
Year 4 - Multiplying by 10 and 100 — Lesson Guide

Step 1

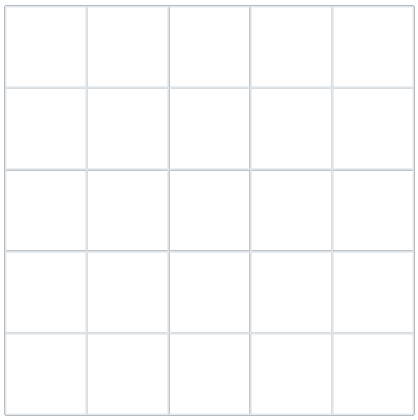
24 × 100 = ☐



First, we circle the multiplication sign so we know which operation is in the question.

Step 2

24 × 100 = ☐

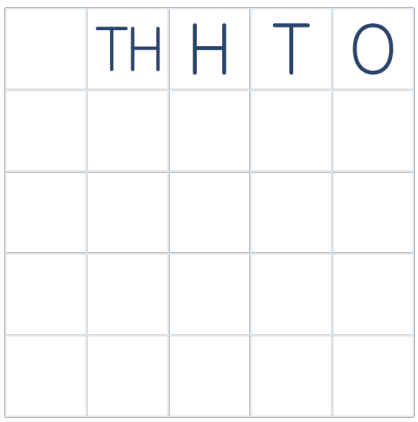


Remember: The decimal point stays between the ones and tenths.

Next, we underline the 100 so we do not accidentally multiply by the wrong amount. We are multiplying by 100, so we can use place value instead of a column method. We are making 24 100 times the size. Each digit becomes worth 100 times as much.

Step 3

24 × 100 = ☐



Next, we write the headings TH, H, T and O below the question, with one heading in each box. Our answer will use the thousands column, so we leave room for it. These stand for thousands, hundreds, tens and ones.

Step 4

$24 \times 100 = \square$

	TH	H	T	O
		4		

Remember: Move every digit the same number of places. The order of the digits stays the same.

The 4 in the ones column stands for 4 ones. Multiplying by 100 makes it 4 hundreds. Write 4 in the hundreds column.

Step 5

$24 \times 100 = \square$

	TH	H	T	O
	2	4		

Remember: Move every digit the same number of places. The order of the digits stays the same.

The 2 in the tens column stands for 2 tens. Multiplying by 100 makes it 2 thousands. Write 2 in the thousands column. The 4 is already in the hundreds column.

Step 6

$24 \times 100 = \square$

	TH	H	T	O
	2	4	0	0

Remember: Use place value to decide where digits and zeros belong.

We have written the 2 in the thousands column and the 4 in the hundreds column. The tens and ones columns are empty. Write 0 in each of those squares to hold the place. Read the product as 2,400.

Step 7

24 × 100 = ☐

	TH	H	T	O
	2	4	0	0

Remember: There must always be a digit in the ones column, even if it is a 0.

Now, we check the place values. 4 ones × 100 = 4 hundreds. 2 tens × 100 = 2 thousands. We read the complete product as 2,400. Check every digit and any zero placeholders before copying it.

Step 8

24 × 100 = 2400

	TH	H	T	O
	2	4	0	0

The product is 2400. Copy 2400 into the answer box. Make sure you copy the answer correctly.