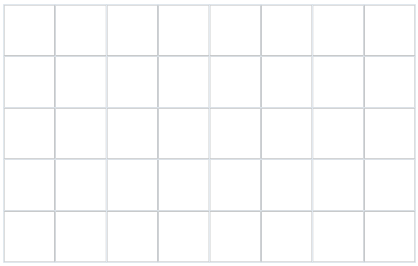
Year 6 - Dividing by 10, 100 and 1,000 — Lesson Guide

Step 1

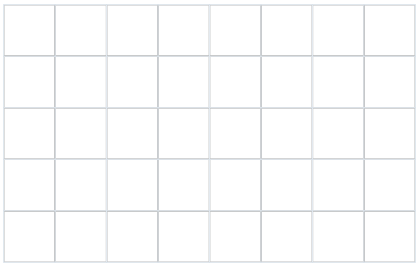
11.1 ÷ 100 = ☐



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

Step 2

11.1 ÷ 100 = ☐

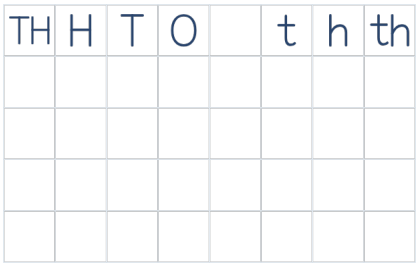


Remember: The decimal point stays between the ones and tenths.

Next, we underline the 100 so we do not accidentally divide by the wrong amount. We can use place value instead of a column method. Each digit becomes worth one hundredth as much. The decimal point stays between the ones and tenths columns.

Step 3

11.1 ÷ 100 = ☐



Next, we write the place-value headings, with one heading in each box. The ones are immediately to the left of the decimal point. Tenths come first on the right. Next are hundredths, with 100 to a whole. Then come thousandths, with 1,000 to a whole.

Step 4

11.1 ÷ 100 = ☐

TH	H	T	O		t	h	th
		1	1	.	1		

Now, we write 11.1 in the correct columns, with one digit in each box. We keep its original place values.

Step 5

11.1 ÷ 100 = ☐

TH	H	T	O		t	h	th
		1	1	.	1		
			0	.			

The hundreds column in 11.1 is empty. After dividing, that empty place gives us 0 ones. Write 0 in the ones place, then put a decimal point straight after the ones digit in our answer box. Each digit is worth one hundredth as much.

Step 6

11.1 ÷ 100 = ☐

TH	H	T	O		t	h	th
		1	1	.	1		
			0	.	1		

The 1 in the tens column stands for 1 ten. Dividing by 100 makes it 1 tenth. Write 1 in the tenths place, straight after the decimal point. Each digit is worth one hundredth as much.

Step 7

11.1 ÷ 100 = ☐

TH	H	T	O		t	h	th
		1	1	.	1		
			0	.	1	1	

The 1 in the ones column stands for 1 one. Dividing by 100 makes it 1 hundredth. Write 1 in the hundredths place. Each digit is worth one hundredth as much.

Step 8

11.1 ÷ 100 = ☐

TH	H	T	O		t	h	th
		1	1	.	1		
			0	.	1	1	1

The 1 in the tenths column stands for 1 tenth. Dividing by 100 makes it 1 thousandth. Write 1 in the thousandths place. Each digit is worth one hundredth as much.

Step 9

11.1 ÷ 100 = **0.111**

TH	H	T	O		t	h	th
		1	1	.	1		
			0	.	1	1	1

Read the answer as 0.111. The 1 is in the tenths place, the 1 is in the hundredths place and the 1 is in the thousandths place. The 0 shows there are no whole ones. Copy 0.111 into our answer box. Make sure you copy the answer correctly.