



Starter

Solve the multiplications below.

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9.87 x
$$100 = 987$$

$$217.8 \times 1,000 = 217,800$$

$$9.8 \times 10 = 98$$

The number 27,000 is represented in a place value chart below.

TTh	Th	Н	T	0
2	7	0	0	0

What columns are the digits in?

The number 27,000 is represented in a place value chart below.

TTh	Th	Н	T	0
2	7	0	0	0

What columns are the digits in?

The digits are in the ten thousands and thousands columns. There are place holders in the hundreds, tens and ones columns.

What will happen to the digits when I divide by 10?

TTh	Th	Н	T	0
2	7	0	0	0

$$27,000 \div 10 =$$

What will happen to the digits when I divide by 10?

TTh	Th	H	Т	0
2	7	0	0	0

TTh	Th	Ξ	Т	0
	2	7	0	0

$$27,000 \div 10 = 2,700$$

The digits move one place value column to the right.

What will happen to the digits when I divide by 100?

TTh	Th	H	Т	0
2	7	0	0	0

$$27,000 \div 100 =$$

What will happen to the digits when I divide by 100?

TTh	Th	H	Т	0
2	7	0	0	0

TTh	Th	Н	Т	0
		2	7	0

$$27,000 \div 100 = 270$$

The digits move two place value columns to the right.

What will happen to the digits when I divide by 1,000?

TTh	Th	H	Т	0
2	7	0	0	0

What will happen to the digits when I divide by 1,000?

TTh	Th	H	Т	0
2	7	0	0	0

TTh	Th	Н	Т	0
			2	7

$$27,000 \div 1,000 = 27$$

The digits move three place value columns to the right.

Complete these sentences with the vocabulary.

When I divide by _____, each digit moves ____ place(s) to the _____ on the place value grid.

When I divide by _____, each digit moves ____ place(s) to the _____ on the place value grid.

When I divide by _____, each digit moves ____ place(s) to the _____ on the place value grid.

10 100 1,000 1 2 3 right right right

Complete these sentences with the vocabulary.

When I divide by 10, each digit moves 1 place(s) to the right on the place value grid.

When I divide by 100, each digit moves 2 place(s) to the right on the place value grid.

When I divide by 1,000, each digit moves 3 place(s) to the right on the place value grid.

Look at the divisions represented on these place value charts.

TTh	Th	Н	T	0
5	6	0	0	0
TTh	Th	Н	T	0
	5	6	0	0
TTh	Th	Н	Т	0
		5	6	0
TTh	Th	Н	T	0
			5	6

Complete these sentences.

5,600 is _____ the size of 56,000.

560 is ______ the size of 56,000.

56 is _____ the size of 56,000.

$$56,000 \div 100 = 560$$

 $56,000 \div 10 = 5,600$

$$56,000 \div 1,000 = 56$$

Look at the divisions represented on these place value charts.

TTh	Th	Н	Т	0
5	6	0	0	0

TTh	Th	Н	T	0
	5	6	0	0

$$56,000 \div 10 = 5,600$$

$$56,000 \div 100 = 560$$

$$56,000 \div 1,000 = 56$$

Complete these sentences.

5,600 is **one-tenth** the size of 56,000.

560 is **one-hundredth** the size of 56,000.

56 is one-thousandth the size of 56,000.

Use the place value charts to divide the following numbers by 10:

Millions	Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones	٠	tenths	hundredths
		6	2	6	0	0			

Millions	Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones	٠	tenths	hundredths
				2	3	6			

Use the place value charts to divide the following numbers by 10:

Millions Hundred Ten Thousands Thousa	nds Thousands	Hundreds	Tens	Ones	٠	tenths	hundredths
	6	2	6	0			

Millions	Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones	•	tenths	hundredths
					2	3	•	6	

Use the place value charts to divide the following numbers by 100:

Millions	Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones	•	tenths	hundredths
	3	5	2	9	0	0			

Milli	ons	Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones	٠	tenths	hundredths
					7	1	4			

Use the place value charts to divide the following numbers by 100:

Millions	Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones	٠	tenths	hundredths
			3	5	2	9			

Millions	Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones	•	tenths	hundredths
						7	•	1	4

Use the place value charts to divide the following numbers by 1,000:

	Millions	Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones	٠	tenths	hundredths
-	3	4	2	0	0	0	0			

Millions	Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones	٠	tenths	hundredths
			3	2	9	0			

Use the place value charts to divide the following numbers by 1,000:

Millions	Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones	•	tenths	hundredths	
			3	4	2	0				

Millions	Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones	٠	tenths	hundredths
						3		2	9
							•		

Use <> or = to compare the following divisions:

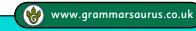
Use <> or = to compare the following divisions:

Problem solving

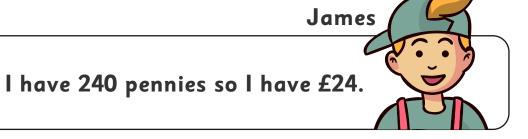
Spot the mistake.

James

I have 240 pennies so I have £24.



Spot the mistake.



There are 100 pennies in a pound $240 \div 100 = 2.4$ so Toby has £2.40 not £24

Your turn! Try the worksheet.

