

Rows and columns with an equal amount in each.



Equal Groups

Use the same number of ones in each group.



Multiplication Strategies Repeated Addition

3 × 5 = 15

21/2



Number Line

Starting from 0, hop 5 at a time. Where do you land?



1 hop of 5 = 5 2 hops of 5 = 10 3 hops of 5 = 15



Lattice/Italian

Draw a grid to match the numbers. Write the partitioned number on top and to the right.

Draw diagonals.

Multiply the numerals.

Write the answers in the relevant box. writing the digits either side of the diagonal.

Add the diagonals in turn. Regroup any "digits" as required.



Partitioning

53 × 38

Multiply each partition together and add the products.

50	×	30	=	1500
3	×	30	=	90
50	×	8	=	400
3	×	8	=	24
				2014

53 × 38 = 2014

Multiplication Strategies Grid Method

×	60	5
6		

Draw a grid.

Write the partitioned number at the top and write the number you are multiplying by on the left.

×	60	5
6	360	30

Multiply the partitioned number.

	360
+	30
	390

Add the products.



Grid Method

×	50	2
30		
8		

Draw a grid.

Write the partitioned numbers at the top and left of the grid.

×	50	2
30	1500	60
8	400	16

Multiply the partitioned number.

	1500
+	400
+	60
+	16
	1976

Add the products.



Multiplication Strategies Column Method

52 × 38	Write the numbers above each other in the columns.
52 × 38 416	Multiply 52 × 8
52 × 38 416 1560	Multiply 52 × 30
416 + 1560 1976	Add the products.
52	× 38 = 1976

Expanded Column Method

Line up the ones and the tens. Multiply the ones. Multiply the tens by the ones. Add the totals together.

	42	
×	6	
	12	(2 × 6)
	240	(40 × 6)
	252	

 $42 \times 6 = 252$



Multiplication Strategies Column Method 3-digit × 2-digit regrouping not shown	
368 × 24	Write the numbers above each other in the columns.
368 × 24 1472	Multiply 368 × 4
368 ★ 24 1472 7360	Multiply 368 × 20
1472 + 7360 8832	Add the products.
368	× 24 = 8832

Multiplication Strategies Column Method

4-digit × 2-digit regrouping not shown

5368 Write the numbers above each otherx 24 in the columns.



Multiplication Strategies Column Method

5-digit × 2-digit carrying not shown

×

25368 Write the numbers above each other24 in the columns.

25368 × 24 101472	Multiply 25 368 × 4
25368 × 24 101472 507360	Multiply 25 368 × 20
101472 + 507360 608832	Add the products.
25 368	× 24 = 608 832

Multiplication Strategies Column Method 6-digit × 2-digit carrying not shown 125368 Write the numbers above each other 24 in the columns.
125368 × 24 Multiply 125 368 × 4 501472
125368 × 24 501472 2507360 Multiply 125 368 × 20
$\begin{array}{r} 501472 \\ + 2507360 \\ 3008832 \end{array} \text{ Add the products.} \\ 125 368 \times 24 = 608 832 \end{array}$
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Multiplying by 10

Use place value to work out how to multiply by 10.

$674 \times 10 = ?$

If you multipy a number by 10, the digits move one place value to the left.

Thousands	Hundreds	Tens	Ones
	6	7	4
Thousands	Hundreds	Tens	Ones
6	7	4	0

Zero will be added after the digits have moved.

Use place value to work out how to multiply by 100. -

 $674 \times 10 = 6740$

674 × 100 = ?

Ten Thousands	Thousands	Hundreds	Tens	Ones
		6	7	4
Ten Thousands	Thousands	Hundreds	Tens	Ones
6	7	4	0	0
Zeros will be added after the digits have moved.				
6	74 × 1	.00 = (67 400	
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		-		

Multiplying Decimals by 10

Use place value to work out how to multiply by 10.

$6.74 \times 10 = ?$

If you multipy a number by 10, the digits move one place to the left.

Hundreds	Tens	Ones	tenths	hundredths
		6	7	4
Hundreds	Tens	Ones	tenths	hundredths
		-		
	6		4	

$6.74 \times 10 = 67.4$

Use place value to work out how to multiply by 100. $6.74 \times 100 = ?$

Hundreds	Tens	Ones	tenths	hundredths
		6	, 7	4
Hundreds	Tens	Ones	tenths	hundredths
6	7	4	0	0

If you multiply a number by 100, the digits move two places to the left.

 $6.74 \times 100 = 674$

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×	Multiplication Strategies Short Column Method 4-digit × 1-digit regrouping shown 1135 Write the numbers above each other in 6 the columns.
	 1135 Multiply 5 × 6 6 Write 0 in the ones column and regroup the 3 beneath the tens column.
×	 1135 Multiply 3 × 6 6 Add the 3 tens that were regrouped. Write 10 1 in the tens column and regroup 2 into the hundreds column.
×	1135 Multiply 1 × 6 6 Add the 2 hundreds that were regrouped. 810 2 3
×	1135 Multiply 1 × 6 and write 6 in the thousands $\frac{6}{23}$ 1135 × 6 = 6810 $\frac{1135}{23}$ × 6 = 6810
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