

The grid method of multiplication (2)

(2 digit x 2 digit)

Today your child's homework involves calculating/solving problems, using grid multiplication. This is a method of multiplication that allows children to see easily what is being multiplied together.

Example: If there are 34 cartoon stickers on a sheet, how many would there be on 23 sheets?

So we need 34×23

First partition the numbers (split into tens and units/ones) and place them on the outside of the grid as shown below.

	30	4
20		
3		

These partitioned numbers are then multiplied together in turn using knowledge of simple multiplication facts and place value, e.g. to calculate 20×30 we use knowledge that $2 \times 3 = 6$ so $20 \times 3 = 60$ and $20 \times 30 = 600$.

	30	4
20	600	80
3	90	12

The numbers in the grid can now be added together. It is probably easiest to add the numbers horizontally first and then add these two totals together as shown below.

	30	4	
20	600	80	680
3	90	12	<u>102</u>
			782

This final number then needs to be used to answer the question:

There would be 782 stickers.