Corbettmaths - Multiplication using the grid method

Introduction Activity 1:

Copy and complete each grid below. Once you have found the missing numbers, add all the numbers in the grid, using the column method, to calculate the answer

1)

25 x 19

	20	5
10	200	
9		45

2)

41 x 27

	40	1
20		20
7	280	

3)

126 x 34

	100	20	6
30	3000	600	
4			24

4)

208 x 71

	200	8
70		
1		

Activity 1:

Work out the following multiplications, using the grid method

1) 16 x 3	2) 17 x 5	3) 23 x 4	4) 32 x 6
5) 19 x 8	6) 73 x 3	7) 92 x 4	8) 23 x 9
9) 125 x 3	10) 253 x 6	11) 340 x 6	12) 203 x 7
13) 828 x 6	14) 901 x 9	15) 1372 x 3	16) 2198 x 6

Activity 2:

Work out the following multiplications, using the grid method

1) 34 x 13	2) 18 x 24	3) 35 x 16	4) 42 x 57
5) 93 x 28	6) 82 x 27	7) 90 x 22	8) 55 x 55
9) 124 x 13	10) 224 x 16	11) 316 x 12	12) 407 x 23
13) 835 x 47	14) 473 x 52	15) 108 x 98	16) 283 x 91

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Activity 3:

Work out the following multiplications, using the grid method

1) 128 x 235   2) 382 x 921   3) 803 x 205   4) 382 x 300
5) 209 x 903   6) 2819 x 35   7) 4716 x 83   8) 2837 x 712

Activity 4:

1) Nicola runs 5 laps of an indoor jogging track. The track is 142 metres. How far has Nicola run in total?

2) An oak dining room chair is £79. How much would six chairs cost?

3) How many days are there in 23 weeks?

4) There are twelve packets of crisps in a multipack. How many packets are in 16 multipacks?

5) Jemma and Harry are sponsored to take part in a 'read-a-thon.'

Jemma is sponsored £4 per book she reads by her parents.
Harry is sponsored £3 per book he reads by his parents.

Jemma reads 17 books and Harry reads 23 books.

How much money do they raise in total?

6) Gregory studies 25 minutes per night for 3 weeks for an upcoming exam. How long, in minutes, does he revise for the exam?

7) There are 24 cans of lemonade in a crate. How many cans would be in 148 crates?

Activity 5:

Correct Emma's and Hannah's work and explain to them what they should do next time

Emma   Hannah

92 x 43

	90	40
2	180	80
3	270	120

270
180
120
80

650
----

92 x 43

	90	2
40	36000	80
3	2700	6

36000
2700
80
6

39506

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Extension Activity 1:

Using the grid method, investigate this pattern:

$$1 \times 1 =$$
$$11 \times 11 =$$
$$111 \times 111 =$$
$$1111 \times 1111 =$$
$$11111 \times 11111 =$$

Without working it out, what would the answer to 1111111 x 1111111 be?

Describe the pattern....

Would the pattern ever end? If so, when? and why?

Extension Activity 2:

Using the grid method, investigate this pattern:

$$9 \times 9 =$$
$$99 \times 99 =$$
$$999 \times 999 =$$
$$9999 \times 9999 =$$
$$99999 \times 99999 =$$

Without working it out, what would the answer to 9999999 x 9999999 be?

Describe the pattern....

Would the pattern ever end? If so, when? and why?

Extension Activity 3:

Using the grid method, investigate this pattern:

$$12345679 \times 9 =$$
$$12345679 \times 18 =$$
$$12345679 \times 27 =$$

Without working it out, what would the answer to 12345679 x 72 be?

Describe the pattern....

Would the pattern ever end? If so, when? and why?