

Date:	WALT: Multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including long multiplication for two-digit numbers. GD: Confidently multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including long multiplication for two-digit numbers to solve a range of complex problems.	Self-assessment Fluency: Reasoning/PS:
	My self-evaluation:	Teacher assessment Fluency: Reasoning/PS:

Fluency

Complete the calculation to work out 23×14

		2	3	
x		1	4	
		9	2	(23×4)
	2	3	0	(23×10)

Use this method to calculate:

34×26 58×15 72×35

Varied Fluency

Complete to solve the calculation.

		4	6	
x		2	7	
	3	2	2	($_ \times _$)
	9	2	0	($_ \times _$)

Use this method to calculate:

27×39 46×55 94×49

Reasoning 1

Tommy says,



It is not possible to make 999 by multiplying two 2-digit numbers.

Do you agree?
Explain your answer.

Reasoning 2

Amir has multiplied 47 by 36



		4	7
×		3	6
	2	8	2
	1	4	1
	3	2	3

Alex says,



Amir is wrong because the answer should be 1,692 not 323

Who is correct?
What mistake has been made?

- 1) Hugo has been practising long multiplication. For each question, can you spot his mistake and explain where he has gone wrong?



a)

	2	2
×	4	4
	8	8
	8	8
1	7	6

(22 × 4)

(22 × 40)

1

b)

		5	4
	×	2	3
	1	5	2
1	0	8	0
1	2	3	2

(54 × 3)

(54 × 20)

1

c)

	3	7
×	2	3
1	1	1
7	4	0
9	7	1

(37 × 3)

(37 × 20)

- 2) For each of these multiplication calculations, do you think it would be best to solve it using long multiplication, mental methods and jottings, times table knowledge or a combination of these methods? Explain why that would be the best method for that calculation.

42×38

12×13

68×11

- 3) Now carry out each multiplication using your suggested method.