

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

Esin says,



Do you agree?
Explain your answer.

Multiplication
Reasoning questions

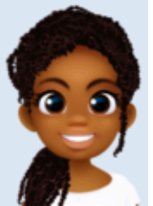
Malachi has multiplied 47 by 36.

		4	7	
	x	3	6	
	2	8 ₄	2	
	1	4 ₂	1	
	3	2	3	



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

Leanna says,



Who is correct?
What mistake has been made?

Problem solving and reasoning questions

Find the product of 274 and 6 using two different methods. Do your answers agree?

Explain how you can work out 235×4 mentally. Now check your answer using short multiplication.

Fill in the missing digits:

$$\begin{array}{r} 84 \square \\ \times \quad \square \\ \hline \square \square 05 \end{array}$$

Write a multiplication of one 3-digit number by 6 where the last two digits of the product are consecutive (e.g. 5, 6).