Trebling

A favourite of mine for multiplication working in a systematic way you work.

	1	а	b	С	d	е	2	f	g	h	i.	J.
x						3	×					3
	а	b	С	d	е	1	f	g	h	i.	j.	2

TASK:

Can you replace the letters with numbers?

Is there only one solution in each case?

Below to see how two different pupils began working on the task.

Tom: "I wrote out single digit multiples of three up to 9 because each letter was one digit. I noticed that the numbers 1 to 9 only appeared once in the ones column of the answers. I looked at the question and realised that $3 \times e$ had to be 21 because it was the only answer ending in 1. This meant that e had to be 7.

I carried the 2 and took it from 7 (the other e) and got 5. So d x 3 had to end in 5 which meant d had to be 5 because $5 \times 3 = 15$. I then repeated the process."

Lucy: "For each problem I first looked to find a number that would make the ones column accurate, then I substituted the number for the answer in the tens column and then continued the process until the calculation was complete."